

Incident ID	nAPP2124561009
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	70 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

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

Printed Name: Connor Walker Title: Sr. Engineer

Signature:  Date: 2/10/2022

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

OCD Only

Received by: _____ Date: _____

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Application ID	

Closure

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

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

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

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

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

OCD Only

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

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

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

Remediation Summary & Soil Closure Request

Mewbourne Oil Company Zach Temporary Frac Booster

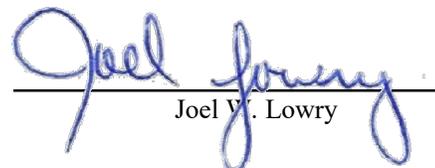
Lea County, New Mexico
Unit Letter "M", Section 18, Township 26 South, Range 33 East
Latitude 32.036748 North, Longitude 103.617768 West
NMOCD Reference No. nAPP2124561009

Prepared By:

Etech Environmental & Safety Solutions, Inc.
2507 79th Street, Unit A
Lubbock, Texas 79423



Ben J. Arguijo



Joel V. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company (Mewbourne), has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Zach Temporary Frac Booster (henceforth, "Zach Temp Booster"). Details of the release are summarized below:

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

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

2.0 SITE CHARACTERIZATION

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

What is the shallowest depth to groundwater beneath the area affected by the release?	70'	
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

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

* Measured in milligrams per kilogram (mg/kg)

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

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

4.0 INITIAL SITE ASSESSMENT

On September 20, 2021, an initial site assessment was conducted by a third-party environmental contractor that is no longer affiliated with the site. During the initial site assessment, a series of six (6) hand-augered soil bores and/or test trenches (SP-1 through SP-7) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. During the advancement of the soil bores/test trenches, soil samples were collected and field-screened for the presence of Volatile Organic Compounds utilizing olfactory/visual senses and/or concentrations of chloride utilizing a chloride test kit.

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

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

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

5.0 REMEDIATION ACTIVITIES SUMMARY

On January 3, 2022, remediation activities commenced at the release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a Hach Quantab® chloride test kit were utilized to field-screen the vertical and horizontal extent of impacted soil and to guide the excavation. The sidewalls and floor of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

On January 4, 2022, Etech collected 15 confirmation soil samples (EW 2, EW 3, EW 4, EW 5, EW 6, WW 2, WW 3, WW 4, WW 5, WW 6, FS 2 @ 4', FS 3 @ 4', FS 4 @ 6.5', FS 5 @ 4', and FS 6 @ 3') from the sidewalls and floor of the excavated area. The soil samples were submitted to a certified commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. TPH and BTEX concentrations were also below the applicable laboratory method detection limit (MDL). Chloride concentrations ranged from less than the laboratory MDL in soil sample FS 5 @ 4' to 512 mg/kg in soil sample EW 5.

On January 5, 2022, Etech collected 10 confirmation soil samples (EW 7, EW 8, EW 9, SW 1, WW 7, WW 8, WW 9, FS 7 @ 2.5', FS 8 @ 2', and FS 9 @ 1') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil sample SW 1 to 272 mg/kg in soil sample EW 7.

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

On January 13, 2022, Etech collected 11 confirmation soil samples (FS 10 @ 15', FS 11 @ 15', FS 12 @ 15', FS 13 @ 15', FS 14 @ 15', FS 15 @ 4', FS 16 @ 2', FS 17 @ 5', FS 18 @ 4.5', FS 19 @ 2.5', and FS 20 @ 1') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil samples FS 11 @ 15', FS 12 @ 15', FS 13 @ 15', FS 14 @ 15', and FS 18 @ 4.5' to 80.0 mg/kg in soil samples FS 15 @ 4', FS 16 @ 2', FS 17 @ 5', and FS 19 @ 2.5'.

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

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

6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

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

7.0 SOIL CLOSURE REQUEST

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

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

8.0 LIMITATIONS

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

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

9.0 DISTRIBUTION

Mewbourne Oil Company

4801 Business Park Blvd.

Hobbs, NM 88240

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 1

1220 South St. Francis Drive

Santa Fe, NM 87505

United States Department of the Interior

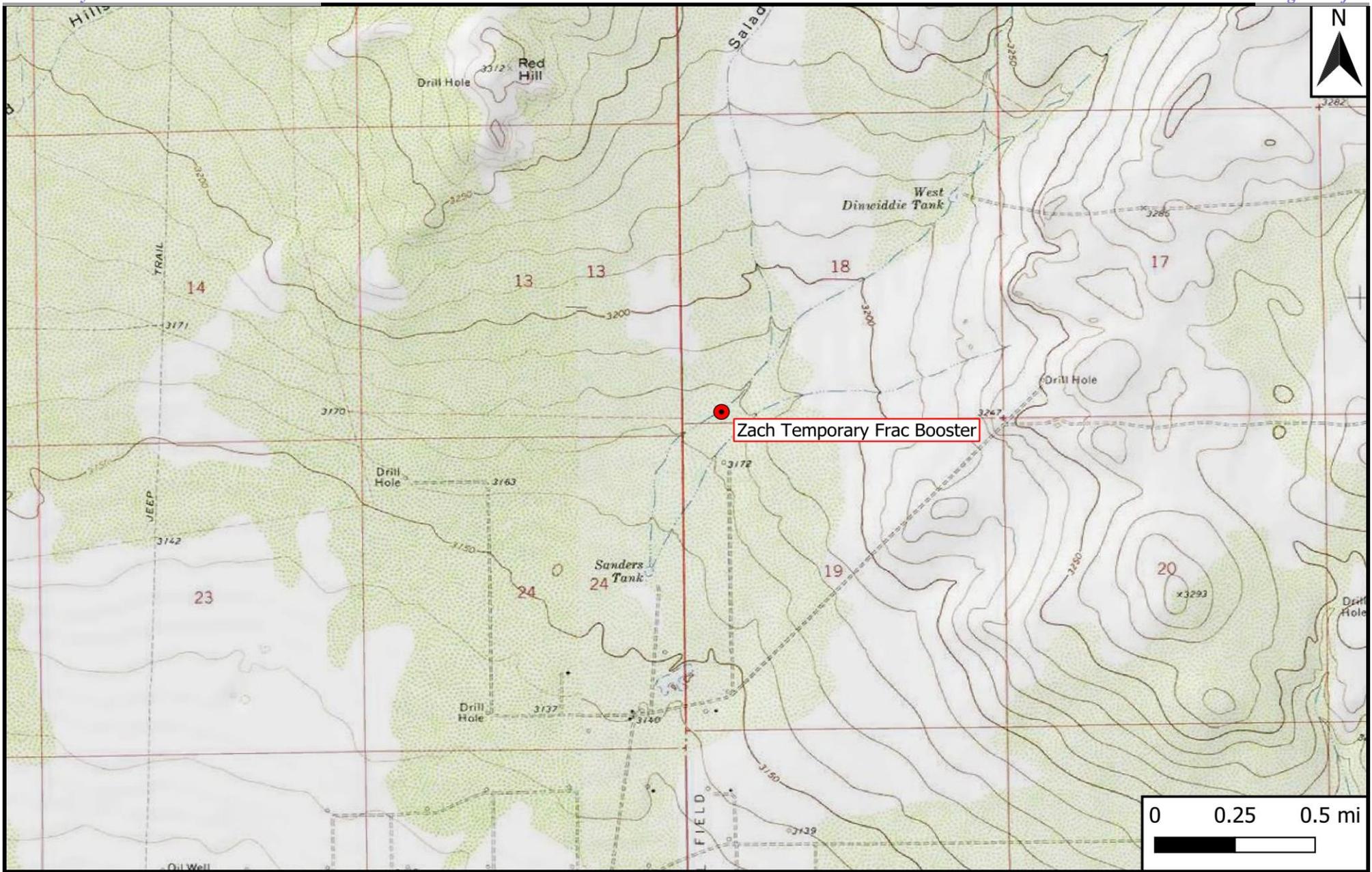
Bureau of Land Management

620 E. Greene Street

Carlsbad, NM 88220

(Electronic Submission)

Figure 1 Topographic Map



Legend	
	Site Location

Figure 1
 Topographic Map
 Mewbourne Oil Company
 Zach Temporary Frac Booster
 GPS: 32.036748, -103.617768
 Lea County

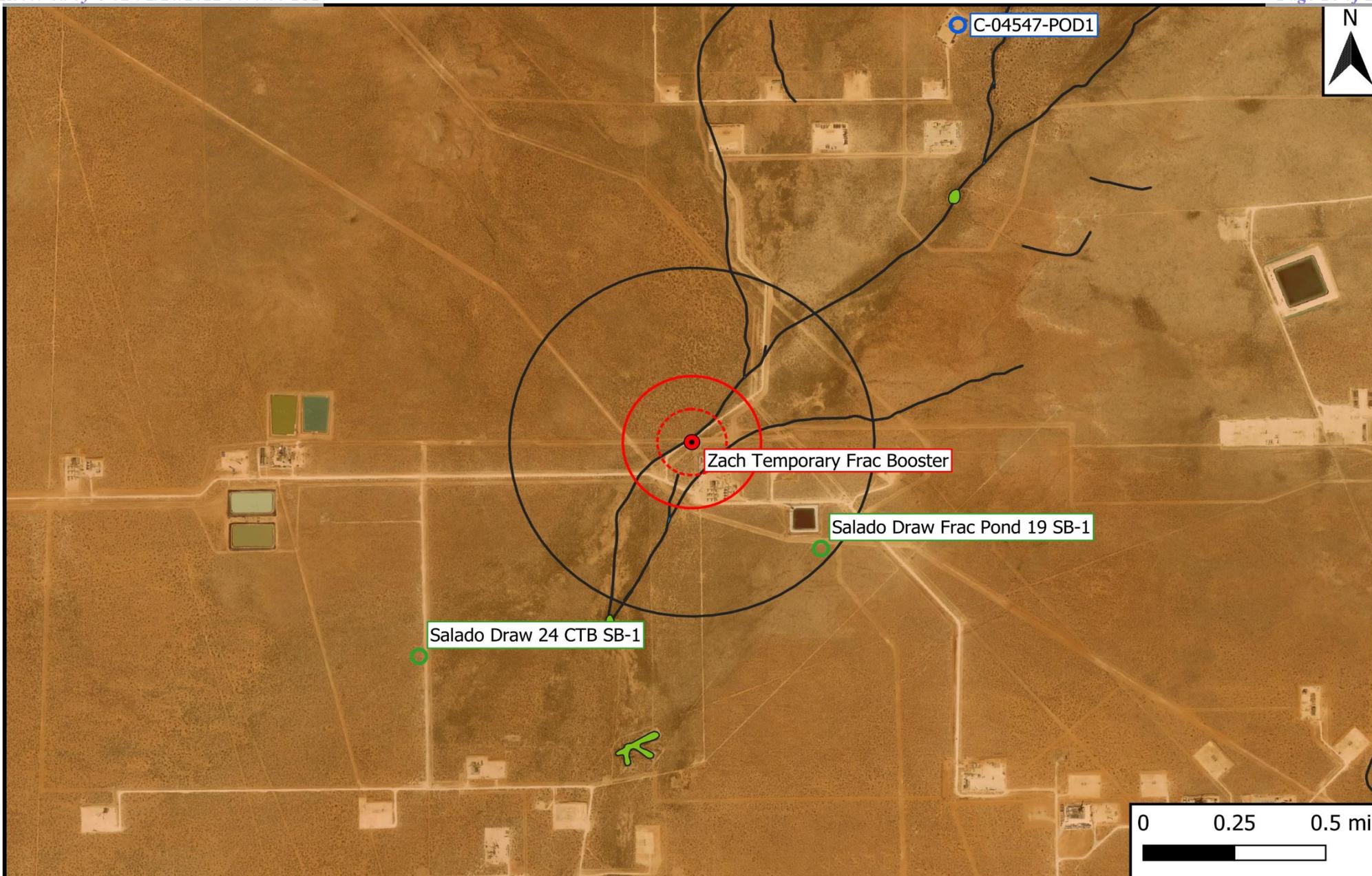
eTECH
 Environmental & Safety Solutions, Inc.



Drafted: bja Checked: jwl Date: 2/1/22

Figure 2

Aerial Proximity Map



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

Figure 2
 Aerial Proximity Map
 Mewbourne Oil Company
 Zach Temporary Frac Booster
 GPS: 32.036748, -103.617768
 Lea County



Drafted: bja Checked: jwl Date: 2/4/22

Figure 3 Site & Sample Location Map



Legend

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

Figure 3
 Site & Sample Location Map
 Mewbourne Oil Company
 Zach Temporary Frac Booster
 GPS: 32.036748, -103.617768
 Lea County



 Environmental & Safety Solutions, Inc.

Drafted: bja
 Checked: jwl Date: 2/7/22

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Zach Temporary Frac Booster NMOCD Ref. #: nAPP2124561009											
NMOCD Closure Criteria				10	50	-	-	-	-	100	600
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C 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)
Delineation Samples											
SP-1 @ 4'	9/20/2021	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,090
SP-1 @ 12'	9/20/2021	12	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SP-2 @ 4'	9/20/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP-3 @ 4'	9/20/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SP-4 @ 2'	9/20/2021	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SP-5 @ 4'	9/20/2021	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,060
SP-5 @ 8'	9/20/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SP-6 @ 4'	9/20/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SP-7 @ 1'	9/20/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
Excavation Samples											
NW 1	1/10/2022	3-12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 1	1/10/2022	3-12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
EW 2	1/4/2022	1-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 3	1/4/2022	1-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
EW 4	1/4/2022	2-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EW 5	1/4/2022	1-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
EW 6	1/4/2022	1-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW 7	1/5/2022	1-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
EW 8	1/5/2022	1-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW 9	1/5/2022	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 1	1/5/2022	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW 1	1/10/2022	3-12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
WW 2	1/4/2022	1-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW 3	1/4/2022	1-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 4	1/4/2022	2-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 5	1/4/2022	1-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
WW 6	1/4/2022	1-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
WW 7	1/5/2022	1-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 8	1/5/2022	1-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 9	1/5/2022	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 1 @ 15'	1/10/2022	15	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 2 @ 4'	1/4/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FS 3 @ 4'	1/4/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS 4 @ 6.5'	1/4/2022	6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 5 @ 4'	1/4/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FS 6 @ 3'	1/4/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FS 7 @ 2.5'	1/5/2022	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 8 @ 2'	1/5/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS 9 @ 1'	1/5/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS 10 @ 15'	1/13/2022	15	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0

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

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

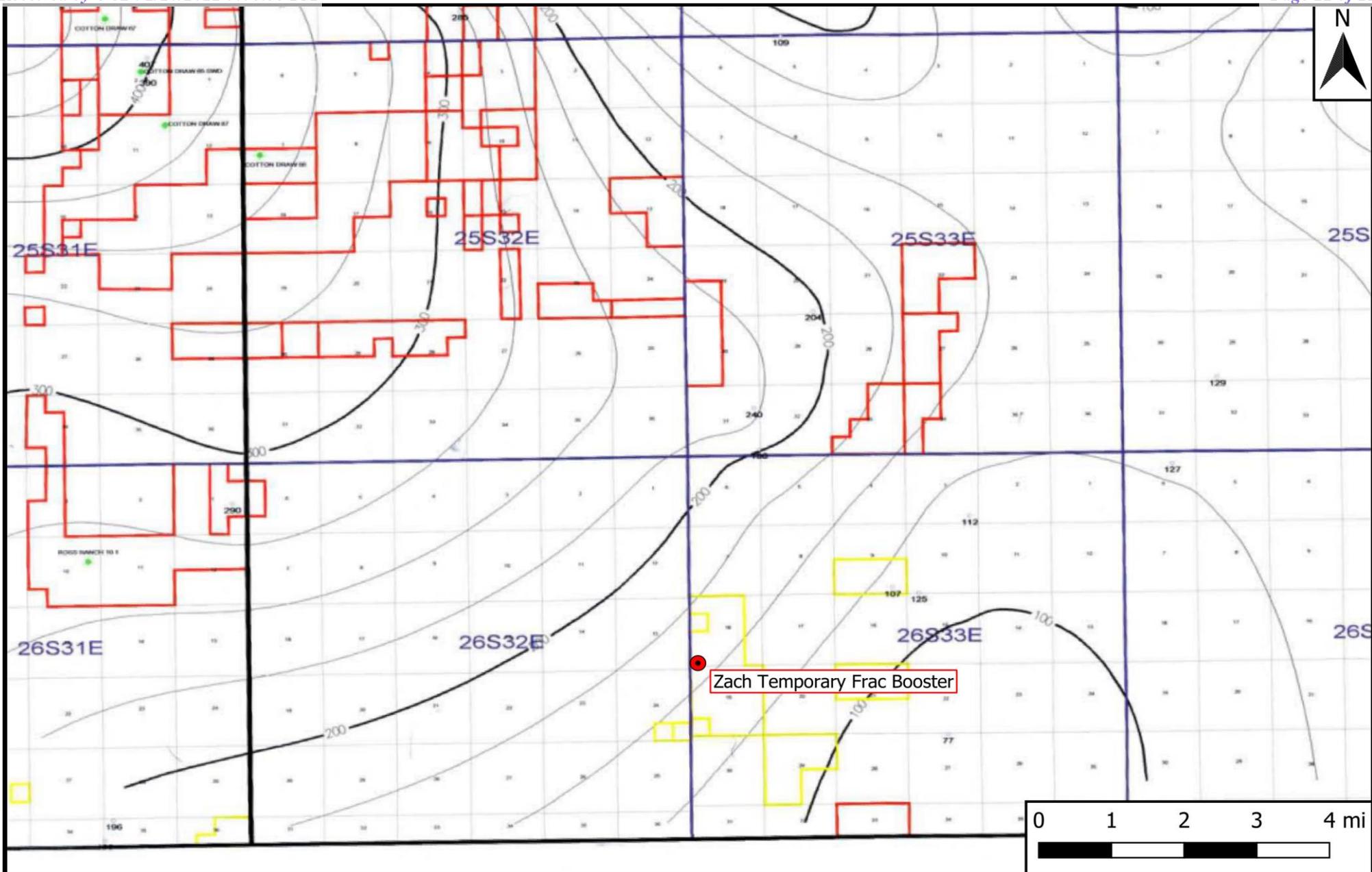
Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Zach Temporary Frac Booster NMOCD Ref. #: nAPP2124561009												
NMOCD Closure Criteria				10	50	-	-	-	-	100	600	
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600	
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl	
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C 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 11 @ 15'	1/13/2022	15	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0	
FS 12 @ 15'	1/13/2022	15	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0	
FS 13 @ 15'	1/13/2022	15	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0	
FS 14 @ 15'	1/13/2022	15	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0	
FS 15 @ 4'	1/13/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0	
FS 16 @ 2'	1/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0	
FS 17 @ 5'	1/13/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0	
FS 18 @ 4.5'	1/13/2022	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0	
FS 19 @ 2.5'	1/13/2022	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0	
FS 20 @ 1'	1/13/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0	

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

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

Appendix A

Depth to Groundwater Information



Legend
 ● Site Location

Figure 4
 Inferred Depth to Groundwater Trend Map
 Mewbourne Oil Company
 Zach Temporary Frac Booster
 GPS: 32.036748, -103.617768
 Lea County



Drafted: bja Checked: jwl Date: 1/31/22



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

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

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_04547 POD1		CUB	LE	2	4	4	07	26S	33E	631686	3547262	2248	112		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 630512.68

Northing (Y): 3545344.14

Radius: 2414

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

2/7/22 8:40 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04547 POD1	2	4	4	07	26S	33E	631686	3547262

Driller License: 1249	Driller Company: ATKINS ENGINEERING ASSOC. INC.	
Driller Name: ATKINS, JACKIE D.UELENER		
Drill Start Date: 07/15/2021	Drill Finish Date: 07/15/2021	Plug Date:
Log File Date: 08/02/2021	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size:	Depth Well: 112 feet	Depth Water:

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

11/16/21 8:03 AM

POINT OF DIVERSION SUMMARY

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

70.12'
Depth of Water

- ONE CONTINUOUS AUGER SAMPLER
- STANDARD PENETRATION TEST
- UNDISTURBED SAMPLE
- WATER TABLE (24 HRS)
- WATER TABLE (TIME OF BORING)
- LABORATORY TEST LOCATION
- PENETROMETER (TONS/ SQ. FT)
- NO RECOVERY

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



DRILL DATE : 04-09-2020

BORING NUMBER : SB-01

BORING RECORD

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

- ONE CONTINUOUS AUGER SAMPLER
- STANDARD PENETRATION TEST
- UNDISTURBED SAMPLE
- WATER TABLE (24 HRS)
- WATER TABLE (TIME OF BORING)
- LABORATORY TEST LOCATION
- PENETROMETER (TONS/ SQ. FT)
- NO RECOVERY

JOB NUMBER : Chevron/ 19-0180-01
 HOLE DIAMETER : 2"
 LOCATION : Salado Draw 24 CTB
 LAI GEOLOGIST : E. Chavez
 DRILLING CONTRACTOR : Scarborough
 DRILLING METHOD : Air Rotary



DRILL DATE : 04-14-2020

BORING NUMBER : SB-01

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

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

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



Legend

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

Figure 5
 USGS Well Proximity Map
 Mewbourne Oil Company
 Zach Temporary Frac Booster
 GPS: 32.036748, -103.617768
 Lea County

eTECH
Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 1/31/22



MENU

Beta release

26S.33E.09.443142



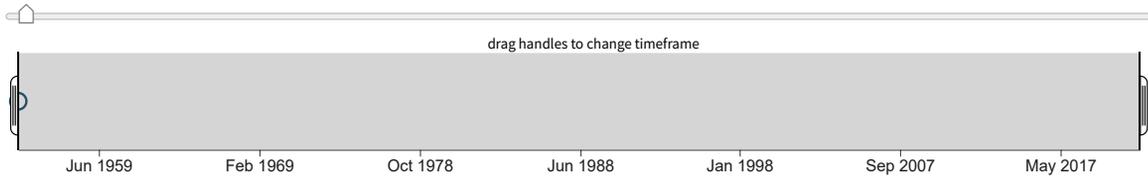
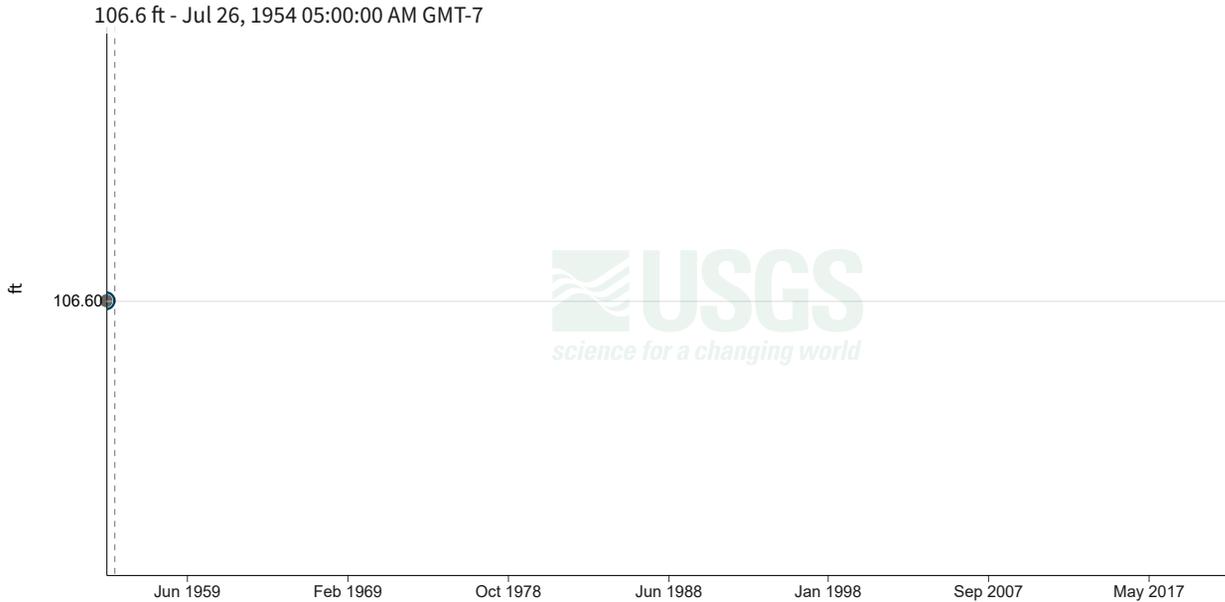
IMPORTANT [Classic Inventory Page](#)

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

1 year 10 years Period of record

Change time span | **Retrieve data**

Depth to water level, ft below land surface



Field visit: Approved

- Compare to last year
- Display median

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

Select Data to Graph

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

Hydrograph data table(s) —

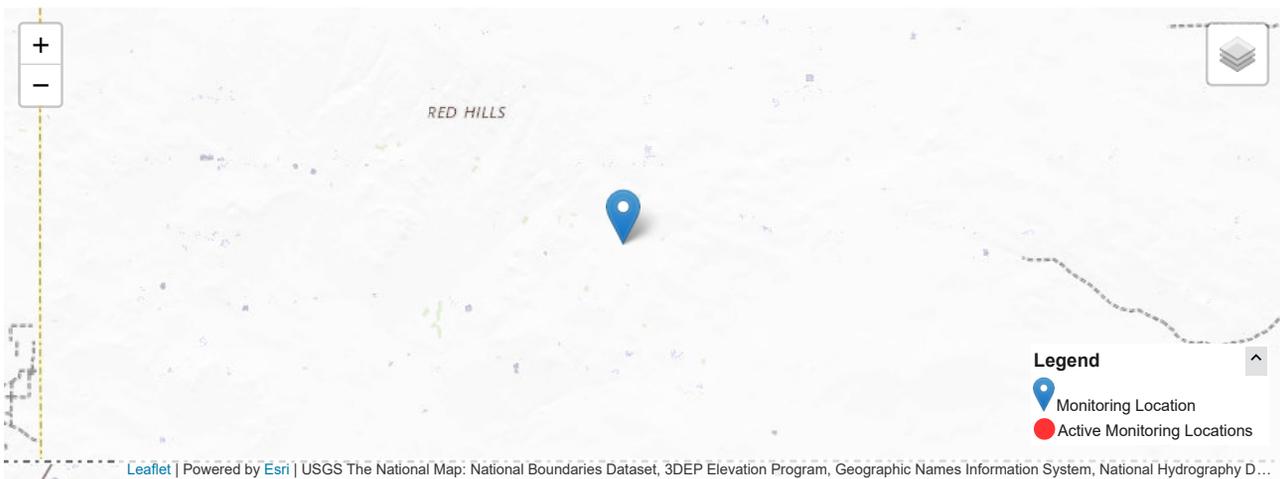
Field visit data

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

1

Groundwater Data BETA —

i Why don't I see a groundwater graph?
 No groundwater level statistical daily data has been reported for this location.



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

Affiliated Networks BETA —

[NWIS Monitoring Locations](#)

Summary of All Available Data —

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

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

Location Metadata +

Questions or Comments

Appendix B

Field Data & Soil Profile Logs



Sample Log

Date: 12-3-21

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

Project Number: 15065 Latitude: 32.036748 Longitude: -103.617768

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

Sample Point = SP #1 @ ## etc Test Trench = TT #1 @ ## Resamples = SP #1 @ 5b or SW #1b
 Floor = FL #1 etc Refusal = SP #1 @ 4'-R Stockpile = Stockpile #1
 Sidewall = SW #1 etc Soil Intended to be Deferred = SP #1 @ 4' In-Situ GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: Zach Temp Free Booster

Project Number: 15065 Latitude: 32.036748 Longitude: -103.617768

Sample ID	PID/Odor	Chloride Conc.	GPS
FS8@2'	-	204	
EW8	-	204	
WW8	-	304	
FS9@1'	-	172	
EW9	-	144	
WW9	-	204	
SW1	-	304	
FS1@15'	-	304	
WW1@ WW1	-	468.468	
WW1@	-	344	
WW1@	-	516	
NW1	-	236	
FS10@15'	-	304	
NW1+	-	924.304	
SW2-	-	1648	
NW1+	-	548	
FS11@15'	-	267	
FS12@15'	-	275	
EW1+	-	596	
FS1@15 1/2	-	1468	
FS1-3'+	-	706 706	
FS1@4'+	-	2684 2684	
FS1-@ 5'+	-	1267 1267	
EW1+B, NW1	-	424	
EW1+B, NW1	-	332	
EW1	-	296	
FS13@15'	-	452	
FS14@15'	-	168	
WW1A+	-	596.1532.1072.468	
WW1B+	-	704.384	

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 Loads

Received by OCD: 2/10/2022 5:06:55 PM

Released to Imaging: 3/9/2022 10:53:40 AM

Appendix C

Photographic Log

Photographic Log

Photo Number: 1	
Photo Direction: North	
Photo Description: View of the affected area.	

Photo Number: 2	
Photo Direction: Northeast	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 3	 <p>1/3/22, 10:27 AM +32.036002,-103.618229 ±5.00m 28° NE</p>
Photo Direction: Northeast	
Photo Description: View of the affected area.	

Photo Number: 4	 <p>1/3/22, 10:28 AM +32.036094,-103.618286 ±5.00m 43° NE</p>
Photo Direction: Northeast	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 5	
Photo Direction: East	
Photo Description: View of the excavated area.	

Photo Number: 6	
Photo Direction: Southeast	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 7	
Photo Direction: Southeast	
Photo Description: View of the excavated area.	

Photo Number: 8	
Photo Direction: South	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 9	 <p>1/10/22, 1:18 PM +32.036174, -103.618269 ±10.00m 219° SW</p>
Photo Direction: Southwest	
Photo Description: View of the excavated area.	

Photo Number: 10	 <p>1/10/22, 1:19 PM +32.035795, -103.618449 ±5.00m 223° SW</p>
Photo Direction: Southwest	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 11	 <p>1/10/22, 1:19 PM 32.035744, -103.618442 ±5.00m 210° SW</p>
Photo Direction: Southwest	
Photo Description: View of the excavated area.	

Photo Number: 12	 <p>1/10/22, 1:20 PM 32.035499, -103.619112 ±50.00m 30° NE</p>
Photo Direction: Northeast	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 13	
Photo Direction: West	
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.	

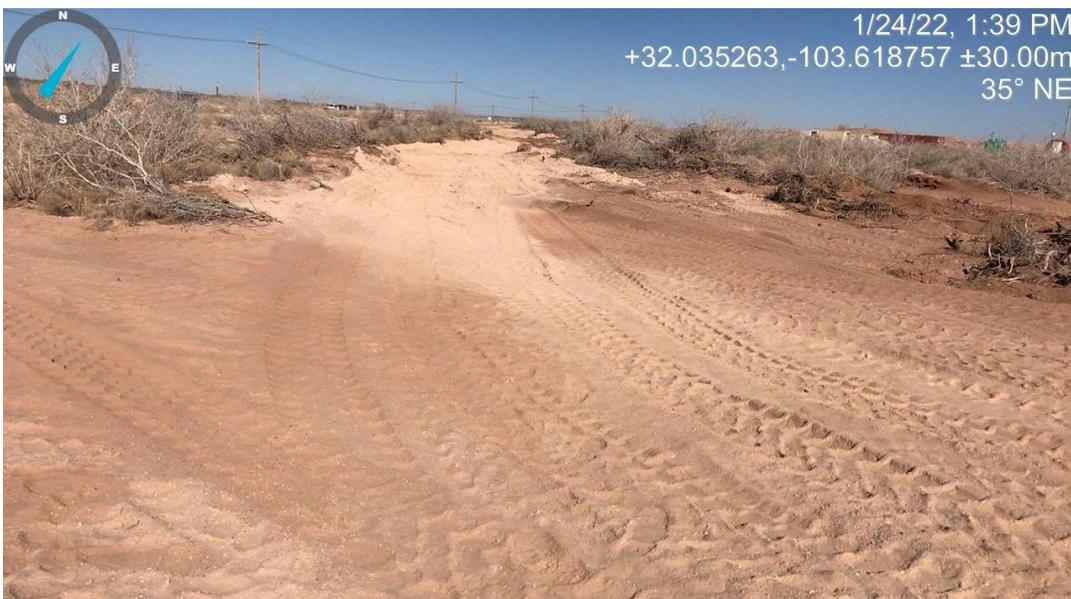
Photographic Log

Photo Number: 15	
Photo Direction: Southwest	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 16	
Photo Direction: Southwest	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log

Photo Number: 17	
Photo Direction: Southwest	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 18	
Photo Direction: Northeast	
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

September 30, 2021

JOHN FARRELL

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: ZAC 1/7 W0MD FEDERAL 2H

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

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

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

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	09/28/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2021	ND	211	106	200	1.69	
DRO >C10-C28*	<10.0	10.0	09/28/2021	ND	209	104	200	0.626	
EXT DRO >C28-C36	<10.0	10.0	09/28/2021	ND					

Surrogate: 1-Chlorooctane 91.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

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

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

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/28/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2021	ND	211	106	200	1.69	
DRO >C10-C28*	<10.0	10.0	09/28/2021	ND	209	104	200	0.626	
EXT DRO >C28-C36	<10.0	10.0	09/28/2021	ND					

Surrogate: 1-Chlorooctane 87.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

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

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

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/28/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2021	ND	211	106	200	1.69	
DRO >C10-C28*	<10.0	10.0	09/28/2021	ND	209	104	200	0.626	
EXT DRO >C28-C36	<10.0	10.0	09/28/2021	ND					

Surrogate: 1-Chlorooctane 89.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

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

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

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

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/28/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2021	ND	211	106	200	1.69	
DRO >C10-C28*	<10.0	10.0	09/28/2021	ND	209	104	200	0.626	
EXT DRO >C28-C36	<10.0	10.0	09/28/2021	ND					

Surrogate: 1-Chlorooctane 90.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

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

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

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/28/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2021	ND	211	106	200	1.69	
DRO >C10-C28*	<10.0	10.0	09/28/2021	ND	209	104	200	0.626	
EXT DRO >C28-C36	<10.0	10.0	09/28/2021	ND					

Surrogate: 1-Chlorooctane 89.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

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

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

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

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	09/28/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2021	ND	211	106	200	1.69	
DRO >C10-C28*	<10.0	10.0	09/28/2021	ND	209	104	200	0.626	
EXT DRO >C28-C36	<10.0	10.0	09/28/2021	ND					

Surrogate: 1-Chlorooctane 88.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

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

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

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/28/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2021	ND	211	106	200	1.69	
DRO >C10-C28*	<10.0	10.0	09/28/2021	ND	209	104	200	0.626	
EXT DRO >C28-C36	<10.0	10.0	09/28/2021	ND					

Surrogate: 1-Chlorooctane 80.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

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

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

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/28/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2021	ND	211	106	200	1.69	
DRO >C10-C28*	<10.0	10.0	09/28/2021	ND	209	104	200	0.626	
EXT DRO >C28-C36	<10.0	10.0	09/28/2021	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

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

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

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/28/2021	ND	1.91	95.3	2.00	6.43	
Toluene*	<0.050	0.050	09/28/2021	ND	1.97	98.5	2.00	3.89	
Ethylbenzene*	<0.050	0.050	09/28/2021	ND	1.88	94.2	2.00	3.39	
Total Xylenes*	<0.150	0.150	09/28/2021	ND	5.73	95.6	6.00	4.06	
Total BTEX	<0.300	0.300	09/28/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/28/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2021	ND	211	106	200	1.69	
DRO >C10-C28*	<10.0	10.0	09/28/2021	ND	209	104	200	0.626	
EXT DRO >C28-C36	<10.0	10.0	09/28/2021	ND					

Surrogate: 1-Chlorooctane 87.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

January 06, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZACH TEMP FRAC BOOSTER

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

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

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

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

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/06/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/05/2022	ND	218	109	200	4.35	
DRO >C10-C28*	<10.0	10.0	01/05/2022	ND	210	105	200	0.480	
EXT DRO >C28-C36	<10.0	10.0	01/05/2022	ND					

Surrogate: 1-Chlorooctane 75.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.0 % 59.5-142

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



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

Analytical Results For:

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

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

Sample ID: EW 2 (H220031-02)

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

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/06/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/05/2022	ND	198	99.2	200	3.31	
DRO >C10-C28*	<10.0	10.0	01/05/2022	ND	206	103	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	01/05/2022	ND					

Surrogate: 1-Chlorooctane 97.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.3 % 59.5-142

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



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Analytical Results For:

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

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

Sample ID: WW 2 (H220031-03)

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

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/06/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/05/2022	ND	198	99.2	200	3.31	
DRO >C10-C28*	<10.0	10.0	01/05/2022	ND	206	103	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	01/05/2022	ND					

Surrogate: 1-Chlorooctane 86.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.1 % 59.5-142

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



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Analytical Results For:

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

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

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

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

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/06/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/05/2022	ND	198	99.2	200	3.31	
DRO >C10-C28*	<10.0	10.0	01/05/2022	ND	206	103	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	01/05/2022	ND					

Surrogate: 1-Chlorooctane 92.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.4 % 59.5-142

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



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

Analytical Results For:

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

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

Sample ID: EW 3 (H220031-05)

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

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/06/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/05/2022	ND	198	99.2	200	3.31	
DRO >C10-C28*	<10.0	10.0	01/05/2022	ND	206	103	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	01/05/2022	ND					

Surrogate: 1-Chlorooctane 96.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.2 % 59.5-142

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



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Analytical Results For:

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

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

Sample ID: WW 3 (H220031-06)

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

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/06/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/05/2022	ND	198	99.2	200	3.31	
DRO >C10-C28*	<10.0	10.0	01/05/2022	ND	206	103	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	01/05/2022	ND					

Surrogate: 1-Chlorooctane 88.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.5 % 59.5-142

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



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

Analytical Results For:

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

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

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

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

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 69.9-140

Chloride, 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	01/06/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/05/2022	ND	198	99.2	200	3.31	
DRO >C10-C28*	<10.0	10.0	01/05/2022	ND	206	103	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	01/05/2022	ND					

Surrogate: 1-Chlorooctane 86.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.9 % 59.5-142

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



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

Analytical Results For:

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

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

Sample ID: EW 4 (H220031-08)

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

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/06/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/05/2022	ND	198	99.2	200	3.31	
DRO >C10-C28*	<10.0	10.0	01/05/2022	ND	206	103	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	01/05/2022	ND					

Surrogate: 1-Chlorooctane 83.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 77.0 % 59.5-142

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* = Accredited Analyte

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



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

Analytical Results For:

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

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

Sample ID: WW 4 (H220031-09)

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

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 69.9-140

Chloride, 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	01/06/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/05/2022	ND	198	99.2	200	3.31	
DRO >C10-C28*	<10.0	10.0	01/05/2022	ND	206	103	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	01/05/2022	ND					

Surrogate: 1-Chlorooctane 91.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.3 % 59.5-142

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



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

Analytical Results For:

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

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

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

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

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/06/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/05/2022	ND	198	99.2	200	3.31	
DRO >C10-C28*	<10.0	10.0	01/05/2022	ND	206	103	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	01/05/2022	ND					

Surrogate: 1-Chlorooctane 75.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 71.2 % 59.5-142

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



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

Analytical Results For:

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

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

Sample ID: EW 5 (H220031-11)

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

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	01/06/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/05/2022	ND	198	99.2	200	3.31	
DRO >C10-C28*	<10.0	10.0	01/05/2022	ND	206	103	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	01/05/2022	ND					

Surrogate: 1-Chlorooctane 92.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.2 % 59.5-142

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



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

Analytical Results For:

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

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

Sample ID: WW 5 (H220031-12)

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

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 69.9-140

Chloride, 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	01/06/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/05/2022	ND	198	99.2	200	3.31	
DRO >C10-C28*	<10.0	10.0	01/05/2022	ND	206	103	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	01/05/2022	ND					

Surrogate: 1-Chlorooctane 91.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.8 % 59.5-142

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



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

Analytical Results For:

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

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

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

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

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/06/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/05/2022	ND	198	99.2	200	3.31	
DRO >C10-C28*	<10.0	10.0	01/05/2022	ND	206	103	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	01/05/2022	ND					

Surrogate: 1-Chlorooctane 87.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.6 % 59.5-142

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



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

Analytical Results For:

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

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

Sample ID: EW 6 (H220031-14)

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

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/06/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/05/2022	ND	198	99.2	200	3.31	
DRO >C10-C28*	<10.0	10.0	01/05/2022	ND	206	103	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	01/05/2022	ND					

Surrogate: 1-Chlorooctane 83.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.0 % 59.5-142

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



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

Analytical Results For:

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

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

Sample ID: WW 6 (H220031-15)

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

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/06/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/05/2022	ND	198	99.2	200	3.31	
DRO >C10-C28*	<10.0	10.0	01/05/2022	ND	206	103	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	01/05/2022	ND					

Surrogate: 1-Chlorooctane 100 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.2 % 59.5-142

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Mike Snyder For 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 "Mike Snyder".

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



CARDINAL LABORATORIES

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

No
Rush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

Company Name: Etech Environmental & Safety Solutions, Inc.		BILL TO		ANALYSIS REQUEST																														
Project Manager: Lance Crenshaw		P.O. #:		<table border="1"> <tr><td>Chloride</td><td>TPH (8015M)</td><td>BTEX (8021B)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>										Chloride	TPH (8015M)	BTEX (8021B)																		
Chloride	TPH (8015M)	BTEX (8021B)																																
Address: P.O. Box 301		Company: Mewbourne																																
City: Lovington Hobbs	State: NM	Zip: 88260	88240																															
Phone #: (575) 396-2378	Fax #: (575) 396-1429																																	
Project #: 15065	Project Owner: Robbie Runnels																																	
Project Name: Zach Temp Frac Booster	State:	Zip:																																
Project Location: Mewbourne	Phone #:																																	
Sampler Name: Eric Mejia	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																				
HZZ0031																																		
1	FS204	C	1			✓				✓			1.4.22		✓	✓	✓																	
2	EW2	C	1			✓				✓					✓	✓	✓																	
3	WW2	C	1			✓				✓					✓	✓	✓																	
4	FS304	C	1			✓				✓					✓	✓	✓																	
5	EW3	C	1			✓				✓					✓	✓	✓																	
6	WW3	C	1			✓				✓					✓	✓	✓																	
7	FS406 1/2	C	1			✓				✓					✓	✓	✓																	
8	EW4	C	1			✓				✓					✓	✓	✓																	
9	WW4	C	1			✓				✓					✓	✓	✓																	
10	FS505	C	1			✓				✓					✓	✓	✓																	
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Relinquished By:		Date: 1-4-22	Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																											
<i>Eric Mejia</i>		Time: 7:30	<i>Jamara Alda Key</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:		REMARKS:																									
Relinquished By:		Date:	Received By:		Please email results to pm@etechenv.com.																													
Delivered By: (Circle One)		6.10 C-0.50		Sample Condition		CHECKED BY:																												
Sampler - UPS - Bus - Other:		5.60 #113		Cool	Intact	(Initials)																												
				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<i>JO.</i>																												



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

January 11, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZACH TEMP FRAC BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 01/06/22 14:50.

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

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

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

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

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/07/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2022	ND	215	108	200	1.15	
DRO >C10-C28*	<10.0	10.0	01/07/2022	ND	196	98.0	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	01/07/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.6 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

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

Sample ID: EW 7 (H220060-02)

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

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	01/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/07/2022	ND	215	108	200	1.15		
DRO >C10-C28*	<10.0	10.0	01/07/2022	ND	196	98.0	200	3.19		
EXT DRO >C28-C36	<10.0	10.0	01/07/2022	ND						

Surrogate: 1-Chlorooctane 120 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

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

Sample ID: WW 7 (H220060-03)

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

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/07/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2022	ND	215	108	200	1.15	
DRO >C10-C28*	<10.0	10.0	01/07/2022	ND	196	98.0	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	01/07/2022	ND					

Surrogate: 1-Chlorooctane 114 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

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

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

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

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/07/2022	ND	215	108	200	1.15		
DRO >C10-C28*	<10.0	10.0	01/07/2022	ND	196	98.0	200	3.19		
EXT DRO >C28-C36	<10.0	10.0	01/07/2022	ND						

Surrogate: 1-Chlorooctane 116 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

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

Sample ID: EW 8 (H220060-05)

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

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/07/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2022	ND	215	108	200	1.15	
DRO >C10-C28*	<10.0	10.0	01/07/2022	ND	196	98.0	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	01/07/2022	ND					

Surrogate: 1-Chlorooctane 119 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

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

Sample ID: WW 8 (H220060-06)

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

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/07/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2022	ND	215	108	200	1.15	
DRO >C10-C28*	<10.0	10.0	01/07/2022	ND	196	98.0	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	01/07/2022	ND					

Surrogate: 1-Chlorooctane 124 % 66.9-136

Surrogate: 1-Chlorooctadecane 113 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

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

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

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

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/07/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2022	ND	215	108	200	1.15	
DRO >C10-C28*	<10.0	10.0	01/07/2022	ND	196	98.0	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	01/07/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

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

Sample ID: EW 9 (H220060-08)

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

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/07/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2022	ND	215	108	200	1.15	
DRO >C10-C28*	<10.0	10.0	01/07/2022	ND	196	98.0	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	01/07/2022	ND					

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

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

Sample ID: WW 9 (H220060-09)

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

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/07/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2022	ND	215	108	200	1.15	
DRO >C10-C28*	<10.0	10.0	01/07/2022	ND	196	98.0	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	01/07/2022	ND					

Surrogate: 1-Chlorooctane 120 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

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

Sample ID: SW 1 (H220060-10)

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

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/07/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/07/2022	ND	215	108	200	1.15		
DRO >C10-C28*	<10.0	10.0	01/07/2022	ND	196	98.0	200	3.19		
EXT DRO >C28-C36	<10.0	10.0	01/07/2022	ND						

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

January 12, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZACH TEMP FRAC BOOSTER

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

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

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

Sample ID: NW 1 (H220099-01)

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/11/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2022	ND	235	117	200	5.24	
DRO >C10-C28*	<10.0	10.0	01/11/2022	ND	206	103	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	01/11/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

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

Sample ID: EW 1 (H220099-02)

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	01/11/2022	ND	1.98	98.9	2.00	7.37	
Toluene*	<0.050	0.050	01/11/2022	ND	2.05	102	2.00	7.55	
Ethylbenzene*	<0.050	0.050	01/11/2022	ND	2.11	105	2.00	5.01	
Total Xylenes*	<0.150	0.150	01/11/2022	ND	6.57	110	6.00	5.69	
Total BTEX	<0.300	0.300	01/11/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/11/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2022	ND	235	117	200	5.24	
DRO >C10-C28*	<10.0	10.0	01/11/2022	ND	206	103	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	01/11/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

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

Sample ID: WW 1 (H220099-03)

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	01/11/2022	ND	1.98	98.9	2.00	7.37	
Toluene*	<0.050	0.050	01/11/2022	ND	2.05	102	2.00	7.55	
Ethylbenzene*	<0.050	0.050	01/11/2022	ND	2.11	105	2.00	5.01	
Total Xylenes*	<0.150	0.150	01/11/2022	ND	6.57	110	6.00	5.69	
Total BTEX	<0.300	0.300	01/11/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/11/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2022	ND	235	117	200	5.24	
DRO >C10-C28*	<10.0	10.0	01/11/2022	ND	206	103	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	01/11/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

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

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

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

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/11/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2022	ND	235	117	200	5.24	
DRO >C10-C28*	<10.0	10.0	01/11/2022	ND	206	103	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	01/11/2022	ND					

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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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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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

No
Rush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

Page 7 of 7

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																																																													
Project Manager: Lance Crenshaw				P.O. #:				<table border="1"> <tr><td>Chloride</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>TPH (8015M)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>BTEX (8021B)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>						Chloride												TPH (8015M)												BTEX (8021B)																																															
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BTEX (8021B)																																																																																					
Address: P.O. Box 301				Company: Mewbourne																																																																																	
City: Livingston Hobbs State: NM Zip: 88260 88240				Attn: Robbie Runnels																																																																																	
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																																																																																	
Project #: 15065 Project Owner: Robbie Runnels				City:																																																																																	
Project Name: Zach Temp Frac Booster				State: Zip:																																																																																	
Project Location: Mewbourne Oil Company				Phone #:																																																																																	
Sampler Name: Eric Mojica				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:																																																																									
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		2	EW1	C	1																																																																																
		3	WW1	C	1																																																																																
		4	FS1 @ 15'	C	1																																																																																

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Relinquished By: <i>Eric Mojica</i>	Date: 1-10-22 1-10-22	Received By: <i>Monica Alda</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: 16:18	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) 4.0° C-0.5°	Sampler - UPS - Bus - Other:	Sample Condition: Cool Intact	REMARKS:	
3.5° #13		Yes No	Please email results to pm@etechenv.com.	
		Yes No	CHECKED BY: (initials) TO.	



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

January 18, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZACH TEMP FRAC BOOSTER

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

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

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

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

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2022	ND	2.07	103	2.00	0.666	
Toluene*	<0.050	0.050	01/17/2022	ND	2.02	101	2.00	1.49	
Ethylbenzene*	<0.050	0.050	01/17/2022	ND	2.04	102	2.00	1.02	
Total Xylenes*	<0.150	0.150	01/17/2022	ND	6.18	103	6.00	0.817	
Total BTEX	<0.300	0.300	01/17/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/17/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2022	ND	222	111	200	0.0473	
DRO >C10-C28*	<10.0	10.0	01/17/2022	ND	216	108	200	3.32	
EXT DRO >C28-C36	<10.0	10.0	01/17/2022	ND					

Surrogate: 1-Chlorooctane 115 % 66.9-136

Surrogate: 1-Chlorooctadecane 117 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

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

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

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2022	ND	2.07	103	2.00	0.666	
Toluene*	<0.050	0.050	01/17/2022	ND	2.02	101	2.00	1.49	
Ethylbenzene*	<0.050	0.050	01/17/2022	ND	2.04	102	2.00	1.02	
Total Xylenes*	<0.150	0.150	01/17/2022	ND	6.18	103	6.00	0.817	
Total BTEX	<0.300	0.300	01/17/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2022	ND	222	111	200	0.0473	
DRO >C10-C28*	<10.0	10.0	01/17/2022	ND	216	108	200	3.32	
EXT DRO >C28-C36	<10.0	10.0	01/17/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

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

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

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

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2022	ND	222	111	200	0.0473	
DRO >C10-C28*	<10.0	10.0	01/17/2022	ND	216	108	200	3.32	
EXT DRO >C28-C36	<10.0	10.0	01/17/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

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Analytical Results For:

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

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

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

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

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/17/2022	ND	205	103	200	0.726		
DRO >C10-C28*	<10.0	10.0	01/17/2022	ND	216	108	200	0.629		
EXT DRO >C28-C36	<10.0	10.0	01/17/2022	ND						

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

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

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

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

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2022	ND	205	103	200	0.726	
DRO >C10-C28*	<10.0	10.0	01/17/2022	ND	216	108	200	0.629	
EXT DRO >C28-C36	<10.0	10.0	01/17/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

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

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

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	01/17/2022	ND	1.98	99.2	2.00	2.71	QR-03
Toluene*	<0.050	0.050	01/17/2022	ND	1.96	98.1	2.00	3.36	QR-03
Ethylbenzene*	<0.050	0.050	01/17/2022	ND	2.00	100	2.00	5.84	QR-03
Total Xylenes*	<0.150	0.150	01/17/2022	ND	6.47	108	6.00	1.92	QR-03
Total BTEX	<0.300	0.300	01/17/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/17/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2022	ND	205	103	200	0.726	
DRO >C10-C28*	<10.0	10.0	01/17/2022	ND	216	108	200	0.629	
EXT DRO >C28-C36	<10.0	10.0	01/17/2022	ND					

Surrogate: 1-Chlorooctane 117 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

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

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

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	01/17/2022	ND	1.98	99.2	2.00	2.71		
Toluene*	<0.050	0.050	01/17/2022	ND	1.96	98.1	2.00	3.36		
Ethylbenzene*	<0.050	0.050	01/17/2022	ND	2.00	100	2.00	5.84		
Total Xylenes*	<0.150	0.150	01/17/2022	ND	6.47	108	6.00	1.92		
Total BTEX	<0.300	0.300	01/17/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/17/2022	ND	205	103	200	0.726		
DRO >C10-C28*	<10.0	10.0	01/17/2022	ND	216	108	200	0.629		
EXT DRO >C28-C36	<10.0	10.0	01/17/2022	ND						

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 100 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

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

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

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	01/17/2022	ND	1.98	99.2	2.00	2.71	
Toluene*	<0.050	0.050	01/17/2022	ND	1.96	98.1	2.00	3.36	
Ethylbenzene*	<0.050	0.050	01/17/2022	ND	2.00	100	2.00	5.84	
Total Xylenes*	<0.150	0.150	01/17/2022	ND	6.47	108	6.00	1.92	
Total BTEX	<0.300	0.300	01/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/17/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2022	ND	205	103	200	0.726	
DRO >C10-C28*	<10.0	10.0	01/17/2022	ND	216	108	200	0.629	
EXT DRO >C28-C36	<10.0	10.0	01/17/2022	ND					

Surrogate: 1-Chlorooctane 115 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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Analytical Results For:

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

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

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

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	01/17/2022	ND	1.98	99.2	2.00	2.71		
Toluene*	<0.050	0.050	01/17/2022	ND	1.96	98.1	2.00	3.36		
Ethylbenzene*	<0.050	0.050	01/17/2022	ND	2.00	100	2.00	5.84		
Total Xylenes*	<0.150	0.150	01/17/2022	ND	6.47	108	6.00	1.92		
Total BTEX	<0.300	0.300	01/17/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/17/2022	ND	205	103	200	0.726		
DRO >C10-C28*	<10.0	10.0	01/17/2022	ND	216	108	200	0.629		
EXT DRO >C28-C36	<10.0	10.0	01/17/2022	ND						

Surrogate: 1-Chlorooctane 120 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

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Analytical Results For:

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

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

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

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	01/17/2022	ND	1.98	99.2	2.00	2.71		
Toluene*	<0.050	0.050	01/17/2022	ND	1.96	98.1	2.00	3.36		
Ethylbenzene*	<0.050	0.050	01/17/2022	ND	2.00	100	2.00	5.84		
Total Xylenes*	<0.150	0.150	01/17/2022	ND	6.47	108	6.00	1.92		
Total BTEX	<0.300	0.300	01/17/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/17/2022	ND	205	103	200	0.726		
DRO >C10-C28*	<10.0	10.0	01/17/2022	ND	216	108	200	0.629		
EXT DRO >C28-C36	<10.0	10.0	01/17/2022	ND						

Surrogate: 1-Chlorooctane 116 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

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

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

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/17/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2022	ND	205	103	200	0.726	
DRO >C10-C28*	<10.0	10.0	01/17/2022	ND	216	108	200	0.629	
EXT DRO >C28-C36	<10.0	10.0	01/17/2022	ND					

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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District III
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District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS
 Action 80806

CONDITIONS

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

CONDITIONS

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