

Incident ID	nAPP2127433772
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?	___135___ (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: 3/18/2022
 email: cwalker@mewbourne.com Telephone: (806) 202-5281

OCD Only

Received by: _____ Date: _____

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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: 3/18/2022 _____
 email: cwalker@mewbourne.com _____ Telephone: (806) 202-5281 _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by:  _____ Date: 04/28/2022 _____
 Printed Name: Jennifer Nobui _____ Title: Environmental Specialist A _____

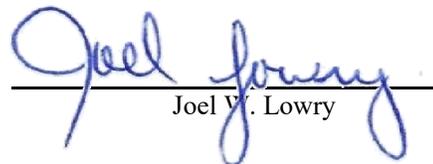
Remediation Summary & Soil Closure Request

Mewbourne Oil Company
Zach 17/8 W1MD Fed Com #1H Battery
Lea County, New Mexico
Unit Letter "M", Section 17, Township 26 South, Range 33 East
Latitude 32.03663 North, Longitude 103.599588 West
NMOCD Reference No. nAPP2127433772

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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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 17/8 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?	135'			
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<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	<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	<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	<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	<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	<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	<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	<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	<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	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<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	<input type="checkbox"/> Yes	<input checked="" 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 17/8 release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
135'	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

From October 4 through 8, 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 64 hand-augered soil bores and/or test trenches (SD-1 through SD-64) 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 64 delineation soil samples (SD-1 @ 3' through and SD-64 @ 3') 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 soil was not affected above the NMOCD Closure Criteria beyond three (3) feet below ground surface (bgs) in the areas characterized by sample points SD-1 through SD-64. 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 3A, "Site & Sample Location Map (Delineation)". 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 November 2021, Mewbourne contracted Etech to assume remediation activities for the release.

5.0 REMEDIATION ACTIVITIES SUMMARY

On December 1, 2021, 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.

Etech collected six (6) confirmation soil samples (NW 3, NW 4, SW 3, SW 4, FL 4 @ 3', and FL 5 @ 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 samples NW 3 and SW 4 to 176 mg/kg in soil sample FL 4 @ 3'.

On December 2, 2021, Etech collected 28 confirmation soil samples (NW 5 through NW 14, SW 5 through SW 14, and FL 6 @ 3' through FL 13 @ 3') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil samples NW 7, NW 11, NW 12, NW 14, SW 5, SW 6, SW 10, SW 11, SW 13, SW 14, and FL 11 @ 3' to 160 mg/kg in soil sample FL 13 @ 3'.

On December 3, 2021, Etech collected 27 confirmation soil samples (NW 15 through NW 24, SW 15 through SW 24, and FL 14 @ 3' through FL 20 @ 3') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil samples NW 18, NW 19, NW 23, NW 24, SW 16, and SW 22 to 240 mg/kg in soil sample SW 19.

On December 7, 2021, Etech collected 25 confirmation soil samples (NW 25 through NW 33, SW 25 through SW 33, WW 1, and FL 21 @ 3' through FL 26 @ 3') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX, TPH, and chloride concentrations were also below the applicable laboratory MDL in a majority of the samples, with the exceptions of soil samples NW 27, NW 30, SW 30, SW 31, SW 32, FL 22 @ 3', and FL 26 @ 3', which exhibited chloride concentrations ranging from 16.0 mg/kg (NW 27 and FL 22 @ 3') to 384 mg/kg (SW 30).

On December 8, 2021, Etech collected seven (7) confirmation soil samples (NW 1, NW 2, SW 1, SW 2, FL 1 @ 3', FL 2 @ 3', and FL 3 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil sample FL 3 @ 4' to 224 mg/kg in soil sample NW 2.

On December 9, 2021, Etech collected 22 confirmation soil samples (NW 34 through NW 39, SW 34 through SW 39, SW 42, SW 43, FL 27 @ 4' through FL 32 @ 3', FL 36 @ 3', and FL 38 @ 3') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil sample SW 35 to 320 mg/kg in soil sample FL 31 @ 3'.

On December 10, 2021, Etech collected 15 confirmation soil samples (NW 43 through NW 48, SW 44 through SW 48, and FL 39 @ 3' through FL 42 @ 3') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil samples NW 43, NW 44, and SW 46 to 224 mg/kg in soil sample FL 39 @ 3'.

On December 16, 2021, Etech collected 17 confirmation soil samples (NW 52 through NW 54, EW 1 through EW 4, SW 53, WW 2, WW 3, WW 4, and FL 47 @ 3.5' through FL 52 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil samples EW 2, EW 3, and EW 4 to 400 mg/kg in soil sample FL 52 @ 4'.

On December 17, 2021, Etech collected seven (7) confirmation soil samples (NWA, NWB, WWA, FLA @ 1.5', FLB @ 1.5', FLC @ 1.5', and FLD @ 1.5') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated 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 NWB to 336 mg/kg in soil sample FLA @ 1.5'.

On December 20, 2021, Etech collected seven (7) confirmation soil samples (SW 53, SW 54, SW 55, and FL 53 @ 4' through FL 56 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil samples SW 53, SW 54, and SW 55 to 288 mg/kg in soil sample FL 53 @ 4'.

On December 30, 2021, Etech collected 17 confirmation soil samples (NW 40, NW 41, NW 49, NW 50, NW 51, SW 40, SW 41, SW 49 through SW 52, FL 33, FL 34, and FL 43 through FL 46) 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 samples NW 40 and SW 50 to 384 mg/kg in soil sample FL 43.

On January 7, 2022, Etech collected five (5) confirmation soil samples (NW 42, WW 5, WW 7, FL 35 @ 3', and FL 37 @ 3') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil samples WW 7 and FL 37 @ 3' to 16.0 mg/kg in soil samples NW 42, WW 5, and FL 35 @ 3'.

The final dimensions of the excavated area were approximately 2,515 feet in length, five (5) to 200 feet in width, and 1.5 to three (3) feet in depth. During the course of remediation activities, Etech transported approximately 6,956 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 6,960 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 3B, "Site & Sample Location Map (Excavation)". 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 17/8 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

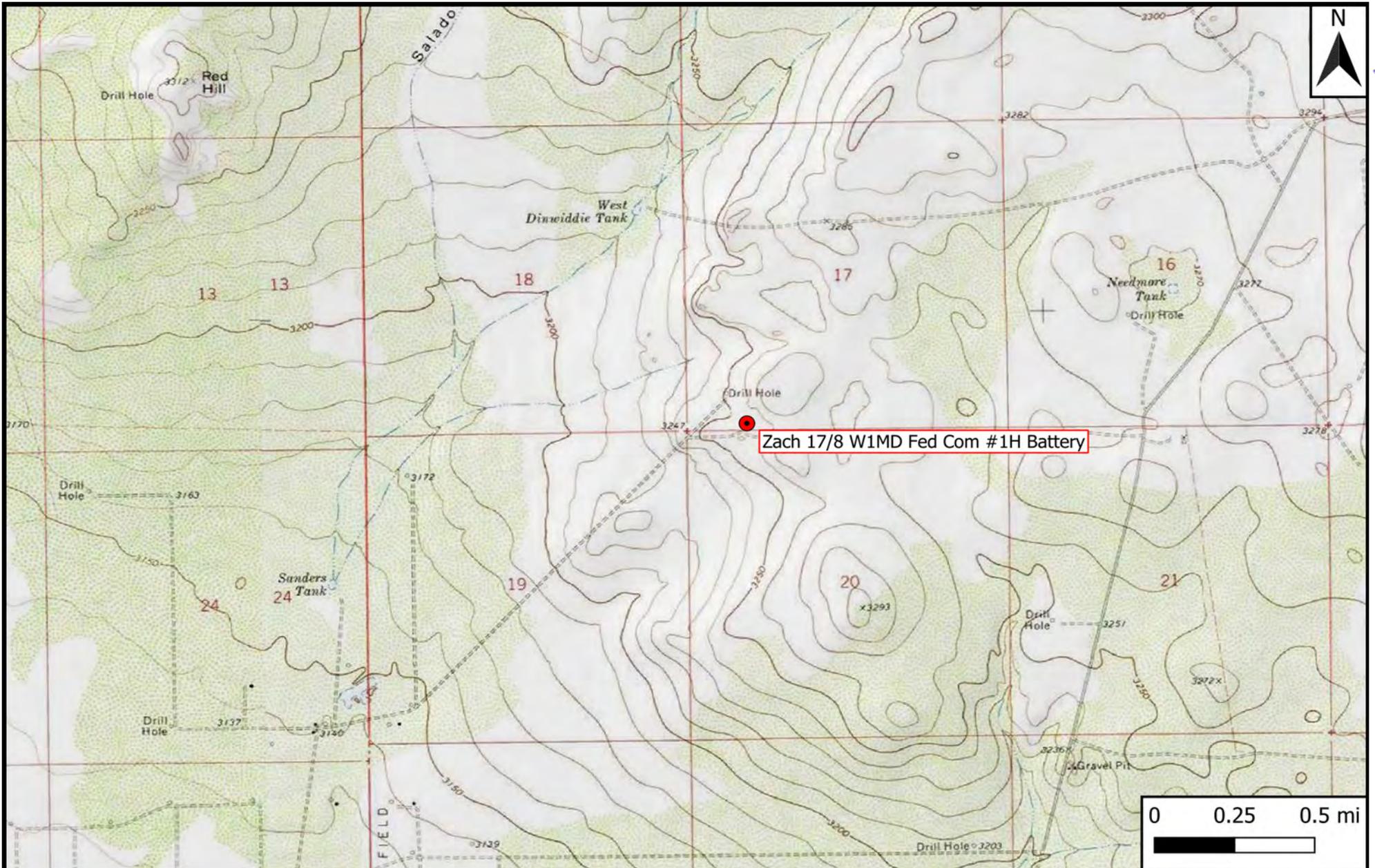
Bureau of Land Management

620 E. Greene Street

Carlsbad, NM 88220

(Electronic Submission)

Figure 1 Topographic Map



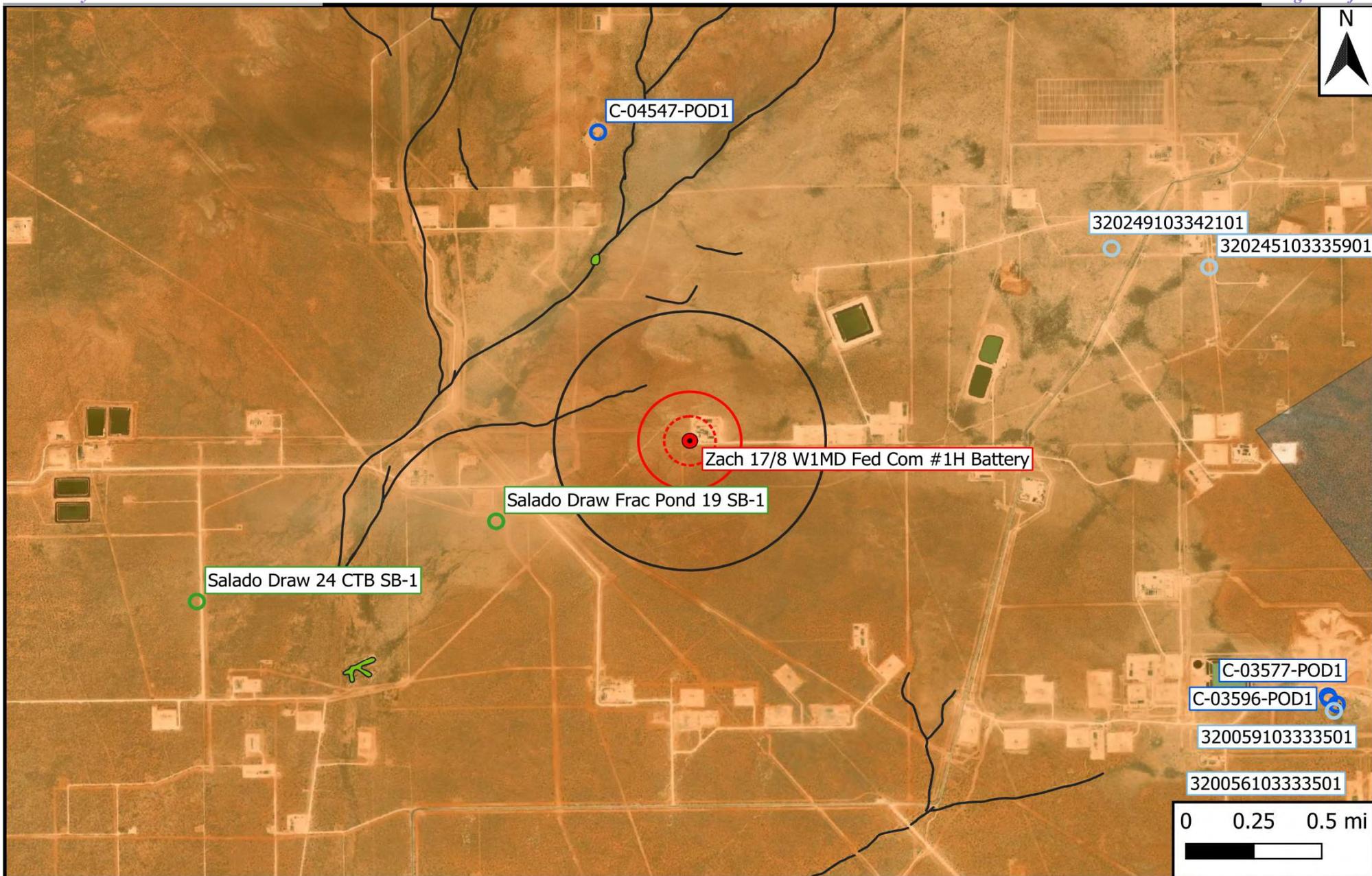
Legend
 ● Site Location

Figure 1
 Topographic Map
 Mewbourne Oil Company
 Zach 17/8 W1MD Fed Com #1H Battery
 GPS: 32.03663, -103.599588
 Lea County



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

Figure 2 Aerial Proximity Map



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

Figure 2
 Aerial Proximity Map
 Mewbourne Oil Company
 Zach 17/8 W1MD Fed Com #1H Battery
 GPS: 32.03663, -103.599588
 Lea County

eTECH
Environmental & Safety Solutions, Inc.

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

Figure 3A & 3B Site & Sample Location Maps

Western Portion of Release



Central Portion of Release



Eastern Portion of Release



Legend
 Affected Area
 Delineation Sample Location

Figure 3A
 Site & Sample Location Map (Delineation)
 Mewbourne Oil Company
 Zach 17/8 W1MD Fed Com #1H Battery
 GPS: 32.03663, -103.599588
 Lea County, NM

Drafted: BJA | Checked: JWL | Date: 3/13/2022

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Zach 17/8 W1MD Fed Com #1H Battery NMOCD Ref. #: nAPP2127433772											
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											
SD-1 @ 3'	10/4/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-2 @ 3'	10/4/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-3 @ 3'	10/4/2021	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-4 @ 3'	10/4/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-5 @ 3'	10/4/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-6 @ 3'	10/4/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-7 @ 3'	10/4/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-8 @ 3'	10/4/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-9 @ 3'	10/4/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-10 @ 3'	10/4/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-11 @ 3'	10/6/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-12 @ 3'	10/6/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-13 @ 3'	10/6/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-14 @ 3'	10/6/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-15 @ 3'	10/6/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-16 @ 3'	10/6/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-17 @ 3'	10/6/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-18 @ 3'	10/6/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-19 @ 3'	10/6/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-20 @ 3'	10/6/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-21 @ 3'	10/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-22 @ 3'	10/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-23 @ 3'	10/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-24 @ 3'	10/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-25 @ 3'	10/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-26 @ 3'	10/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-27 @ 3'	10/7/2021	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-28 @ 3'	10/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-29 @ 3'	10/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-30 @ 3'	10/7/2021	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-31 @ 3'	10/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-32 @ 3'	10/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-33 @ 3'	10/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-34 @ 3'	10/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-35 @ 3'	10/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-36 @ 3'	10/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-37 @ 3'	10/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-38 @ 3'	10/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-39 @ 3'	10/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-40 @ 3'	10/7/2021	3	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 17/8 W1MD Fed Com #1H Battery NMOCD Ref. #: nAPP2127433772											
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)
SD-41 @ 3'	10/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-42 @ 3'	10/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-43 @ 3'	10/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-44 @ 3'	10/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-45 @ 3'	10/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-46 @ 3'	10/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-47 @ 3'	10/7/2021	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-48 @ 3'	10/7/2021	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-49 @ 3'	10/7/2021	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-50 @ 3'	10/7/2021	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-51 @ 3'	10/8/2021	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-52 @ 3'	10/8/2021	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-53 @ 3'	10/8/2021	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-54 @ 3'	10/8/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-55 @ 3'	10/8/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-56 @ 3'	10/8/2021	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-57 @ 3'	10/8/2021	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-58 @ 3'	10/8/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-59 @ 3'	10/8/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-60 @ 3'	10/8/2021	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-61 @ 3'	10/8/2021	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-62 @ 3'	10/8/2021	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-63 @ 3'	10/8/2021	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SD-64 @ 3'	10/8/2021	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
Excavation Samples											
NW 1	12/8/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW 2	12/8/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
NW 3	12/1/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 4	12/1/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 5	12/2/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 6	12/2/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 7	12/2/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 8	12/2/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 9	12/2/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW 10	12/2/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 11	12/2/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 12	12/2/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 13	12/2/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 14	12/2/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 15	12/3/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 16	12/3/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0

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 17/8 W1MD Fed Com #1H Battery NMOCD Ref. #: nAPP2127433772											
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)
NW 17	12/3/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
NW 18	12/3/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 19	12/3/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 20	12/3/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NW 21	12/3/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW 22	12/3/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 23	12/3/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 24	12/3/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 25	12/7/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 26	12/7/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 27	12/7/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 28	12/7/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 29	12/7/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 30	12/7/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 31	12/7/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 32	12/7/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 33	12/7/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 34	12/9/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 35	12/9/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW 36	12/9/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 37	12/9/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 38	12/9/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW 39	12/9/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
NW 40	12/30/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 41	12/30/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 42	1/7/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 43	12/10/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 44	12/10/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 45	12/10/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 46	12/10/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NW 47	12/10/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NW 48	12/10/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
NW 49	12/30/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 50	12/30/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 51	12/30/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW 52	12/16/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW 53	12/16/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 54	12/16/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NWA	12/17/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NWB	12/17/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW 1	12/16/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Zach 17/8 WIMD Fed Com #1H Battery NMOCD Ref. #: nAPP2127433772											
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)
EW 2	12/16/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW 3	12/16/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW 4	12/16/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 1	12/8/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 2	12/8/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 3	12/1/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SW 4	12/1/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 5	12/2/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 6	12/2/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 7	12/2/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 8	12/2/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 9	12/2/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 10	12/2/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 11	12/2/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 12	12/2/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 13	12/2/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 14	12/2/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 15	12/3/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 16	12/3/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 17	12/3/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 18	12/3/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SW 19	12/3/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
SW 20	12/3/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 21	12/3/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 22	12/3/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 23	12/3/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 24	12/3/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 25	12/7/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 26	12/7/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 27	12/7/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 28	12/7/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 29	12/7/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 30	12/7/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
SW 31	12/7/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SW 32	12/7/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 33	12/7/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 34	12/9/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 35	12/9/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 36	12/9/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 37	12/9/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 38	12/9/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192

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 17/8 W1MD Fed Com #1H Battery NMOCD Ref. #: nAPP2127433772											
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)
SW 39	12/9/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SW 40	12/30/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW 41	12/30/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
SW 42	12/9/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 43	12/9/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW 44	12/10/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 45	12/10/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 46	12/10/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 47	12/10/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW 48	12/10/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW 49	12/30/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 50	12/30/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 51	12/30/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 52	12/30/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 53	12/16/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW 53	12/20/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 54	12/20/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 55	12/20/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 1	12/7/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW 2	12/16/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WW 3	12/16/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
WW 4	12/16/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 5	1/7/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW 7	1/7/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WWA	12/17/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 1 @ 3'	12/8/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 2 @ 3'	12/8/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 3 @ 4'	12/8/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 4 @ 3'	12/1/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 5 @ 3'	12/1/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 6 @ 3'	12/2/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 7 @ 3'	12/2/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 8 @ 3'	12/2/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 9 @ 3'	12/2/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 10 @ 3'	12/2/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 11 @ 3'	12/2/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 12 @ 3'	12/2/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 13 @ 3'	12/2/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 14 @ 3'	12/3/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 15 @ 3'	12/3/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 16 @ 3'	12/3/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Zach 17/8 W1MD Fed Com #1H Battery NMOCD Ref. #: nAPP2127433772											
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)
FL 17 @ 3'	12/3/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 18 @ 3'	12/3/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 19 @ 3'	12/3/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 20 @ 3'	12/3/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 21 @ 3'	12/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 22 @ 3'	12/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 23 @ 3'	12/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 24 @ 3'	12/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 25 @ 3'	12/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 26 @ 3'	12/7/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 27 @ 4'	12/9/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 28 @ 3'	12/9/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 29 @ 3'	12/9/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 30 @ 4'	12/9/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 31 @ 3'	12/9/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 32 @ 3'	12/9/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 33	12/30/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 34	12/30/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 35 @ 3'	1/7/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 36 @ 3'	12/9/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 37 @ 3'	1/7/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 38 @ 3'	12/9/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 39 @ 3'	12/10/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 40 @ 3'	12/10/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 41 @ 3'	12/10/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 42 @ 3'	12/10/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 43	12/30/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 44	12/30/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 45	12/30/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 46	12/30/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 47 @ 3.5'	12/16/2021	3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 48	12/16/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 49	12/16/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 50 @ 4'	12/16/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 51 @ 4'	12/16/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FL 52 @ 4'	12/16/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 53 @ 4'	12/20/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 54 @ 4'	12/20/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 55 @ 4'	12/20/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 56 @ 4'	12/20/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FLA @ 1.5'	12/17/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336

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 17/8 W1MD Fed Com #1H Battery NMOCD Ref. #: nAPP2127433772											
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)
FLB @ 1.5'	12/17/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FLC @ 1.5'	12/17/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FLD @ 1.5'	12/17/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0

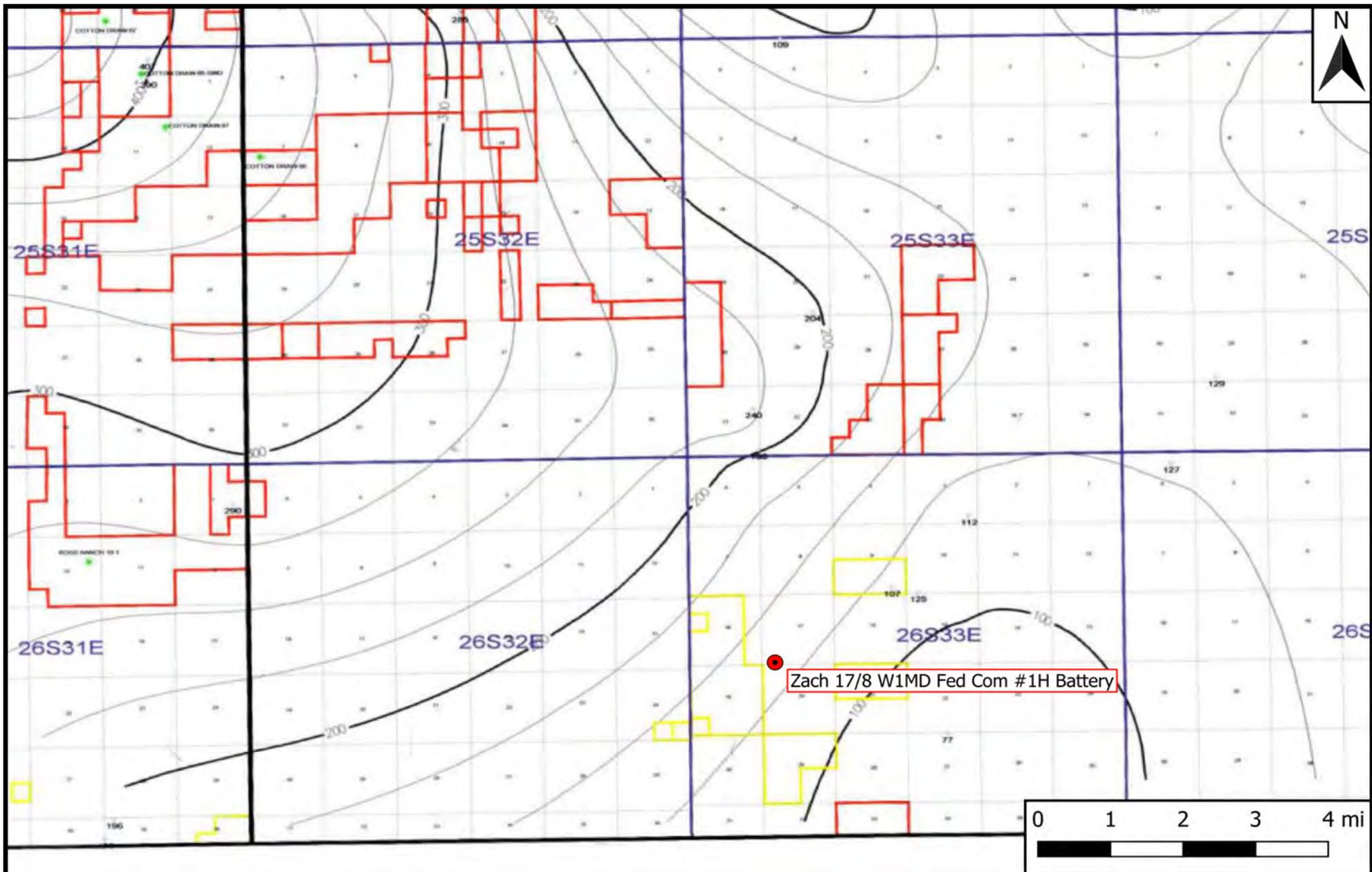
Dash (-): Not Applicable OR Sample not analyzed for that constituent.

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 17/8 W1MD Fed Com #1H Battery
 GPS: 32.03663, -103.599588
 Lea County



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



New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)				(NAD83 UTM in meters)			
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 02273	1	2	21	26S	33E		634549	3545134*
Driller License: 122		Driller Company: UNKNOWN							
Driller Name: UNKNOWN									
Drill Start Date:		Drill Finish Date: 12/31/1930				Plug Date:			
Log File Date:		PCW Rcv Date:				Source:			
Pump Type:		Pipe Discharge Size:				Estimated Yield: 5 GPM			
Casing Size: 6.00		Depth Well: 160 feet				Depth Water: 120 feet			

*UTM location was derived from PLSS - see Help

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

11/16/21 8:54 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

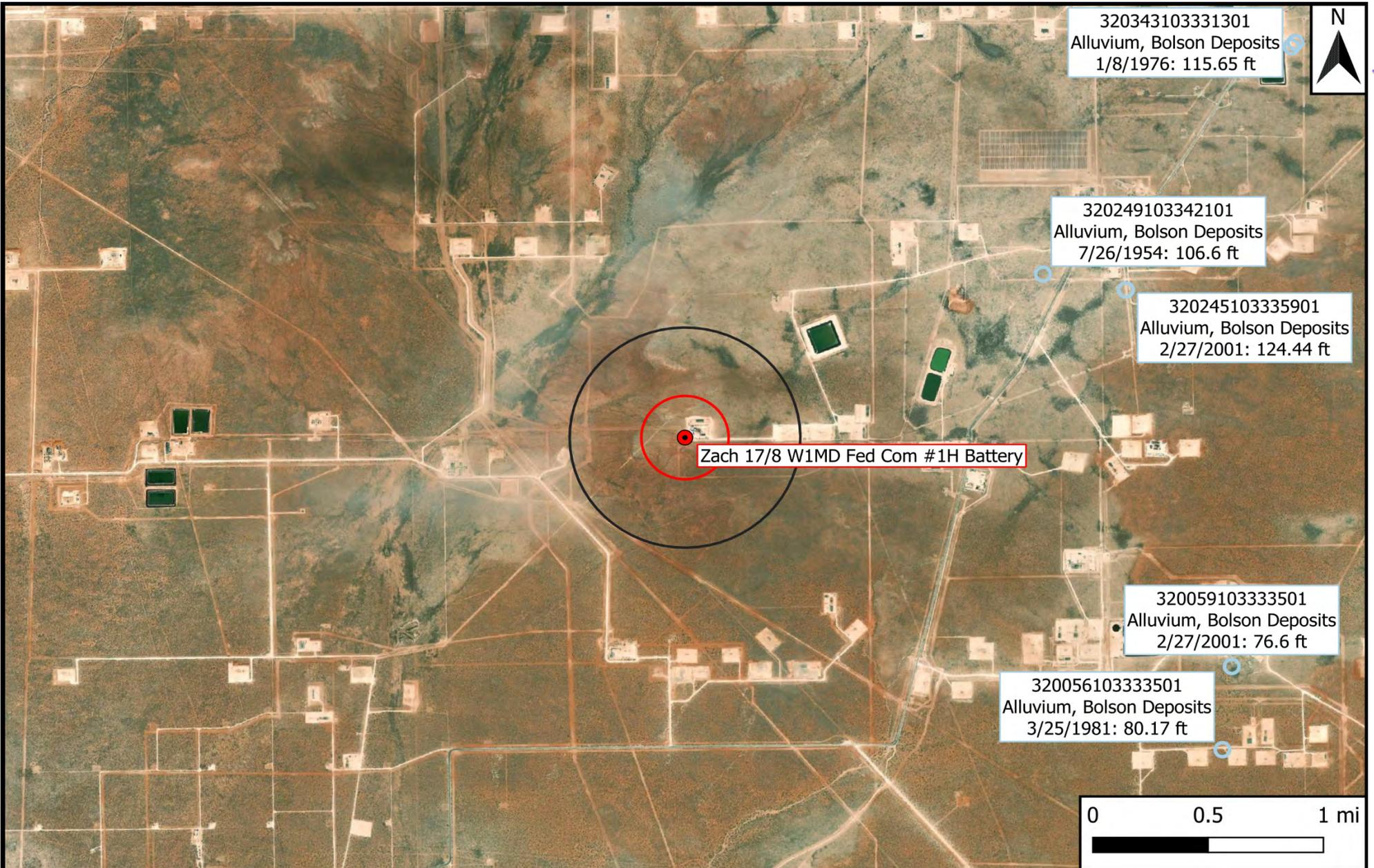
		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04547 POD1	2	4	4	07	26S	33E	631686	3547262

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 8:54 AM

POINT OF DIVERSION SUMMARY



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

Figure 5
 USGS Well Proximity Map
 Mewbourne Oil Company
 Zach 17/8 W1MD Fed Com #1H Battery
 GPS: 32.03663, -103.599588
 Lea County



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



USGS Home
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National Water Information System: Web Interface

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Data Category: Geographic Area:

[Click for News Bulletins](#)

[Groundwater levels for the Nation](#)

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

Search Results -- 1 sites found

Agency code = usgs

site_no list =
• 320249103342101

Minimum number of levels = 1

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

USGS 320249103342101 26S.33E.09.443142

Lea County, New Mexico

Latitude 32°02'49", Longitude 103°34'21" NAD27

Land-surface elevation 3,283 feet above NAVD88

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

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1954-07-26			D	72019	106.60		1	Z			A

Explanation

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

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Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2022-03-13 23:22:47 EDT

0.44 0.3 nadww01

Appendix B

Field Data & Soil Profile Logs

40 say steps
20 ft step

3 hrs : NW 34
FL 27 SW 34



500 sq ft floors
SOLF walls

Sample Log

Date: 12/9/21

Project:

Project Number: 15048

Latitude:

Longitude:

Sample ID	PID/Odor	Chloride Conc.		GPS
FL 27 @ 3'	—	4.2	656	*
FL 28 @ 3'	—	2.8	240	
FL 29 @ 3'	—	3.2	404	
FL 30 @ 3'	—	3.8	548	*
SW 34 @ 0-3'	—	2.8	240	
SW 35 @ 0-3'	—	2.2	216	
SW 36 @ 0-3'	—	2.0	184	
SW 37 @ 0-3'	—	3.0	360	
NW 34 @ 0-3'	—	2.8	240	
NW 35 @ 0-3'	—	2.8	332	↓ new strips
NW 36 @ 0-3'	—	2.4	260	
NW 37 @ 0-3'	—	3.0	372	
FL 27 @ 4'	—	2.8	332	
FL 30 @ 4'	—	3.8	548	?
FL 31 @ 3'	—	3.6	500	
FL 32 @ 3'	—	3.6	580	
SW 38 @ 0-3'	—	3.6	500	
SW 39 @ 0-3'	—	3.4	452	
NW 38 @ 0-3'	—	2.2	228	
NW 39 @ 0-3'	—	3.8	548	?
FL 33			364	
FL 34	↑ Placeholder		292	
FL 35	↑ Air excavations			
SW 40	↑ round pipe		364	
SW 41			364	
NW 40			200	
NW 41	↓		444	
FL 39 36 @ 3'	—	3.4	452	
SW 42	—	1.8	168	
NW 42	—	6.0	888	* Wait for other samples
FL 37	—	3.0	372	
FL 38	—	3.6	500	
SW 43	—	2.4	260	
NW 43	↓	6.8	1692	*

Sample Point = SP #1 @ ## etc
Floor = FL #1 etc
Sidewall = SW #1 etc

Test Trench = TT #1 @ ##
Refusal = SP #1 @ 4'-R
Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples = SP #1 @ 5b or SW #1b
Stockpile = Stockpile #1
GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: _____

Project Number: 15048

Latitude: _____

Longitude: _____

SO-STRONG ODOR!

Sample ID	PID/Odor	Chloride Conc.	GPS
NW43	n/a	200	50 P1eSurf - 7216
NW44	n/a	172	50 P1e1' - 3592
NW45	n/a	324	50 P1o2' - 372 - R
SW44	n/a	260	50 P2eSurf. - 10076
SW45	n/a	364	50 P2e1' - 7216
FL30 @ 3'	n/a	444	50 P2o2' - 2464
FL40 @ 3'	n/a	200	50 P2e3' - 888 - R
FL41 @ 3'	n/a	364	
FL42 @ 3'	n/a	364	
SW46	n/a	200	
SW47	n/a	260	
SW48	n/a	148	
NW46	n/a	364	
NW47	n/a	292	
NW48	n/a	324	
FL43 @ 3'	n/a	442	
FL44 @ 3'	n/a	364	
FL45 @ 3'	n/a	404	
FL46 @ 1.5'	n/a	364	
SW49	n/a	228	
SW50	n/a	200	
SW51	n/a	364	
NW49	n/a	200	
NW50	n/a	128	
NW51	n/a	324	
- FL47 @ 3'	n/a		
SW52		200	
- NW52			
NW53			
FL48			
FL49			
FL50			

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: #N/A

Project Number: #N/A Latitude: #N/A Longitude: #N/A

Sample ID	PID/Odor	Chloride Conc.	GPS
FL 4 @ 3'	n/a	364	
SW 3	n/a	200	
NW 3	n/a	200	
FL 5 @ 3'	n/a	172	
SW 4	n/a	148	
NW 4	n/a	200	
FL 6 @ 3'	n/a	364	
FL 7 @ 3'	n/a	200	
FL 8 @ 3'	n/a	364	
SW 5	n/a	200	
SW 6	n/a	292	
SW 7	n/a	200	
NW 5	n/a	364	
NW 6	n/a	324	
NW 7	n/a	324	
SW 8	n/a	260	
SW 9	n/a	200	
SW 10	n/a	364	
NW 8	n/a	200	
NW 9	n/a	148	
NW 10	n/a	200	
FL 9 @ 3'	n/a	200	
FL 10 @ 3'	n/a	228	
FL 11 @ 3'	n/a	4120	
SW 11	n/a	228	
SW 12	n/a	260	
NW 11	n/a	200	
NW 12	n/a	172	
FL 12 @ 3'	n/a	404	
SW 13	n/a	200	
NW 13	n/a	228	
FL 13 @ 3'	n/a	172	
SW 14	n/a	364	
NW 14	n/a	200	
FL 14 @ 3'	n/a	292	
FL 15 @ 3'	n/a	364	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: 12-16-21

Project: ~~00000~~ Zach 17-8 WIMD Fed Com IH

Project Number: 15048 Latitude: 32.03663 Longitude: -103.599588
West of area wwa-4 *about 200' to see where they are*

Eric

Sample ID	PID/Odor	Chloride Conc.	GPS
NW53	-	168	1 es.t. - 6664
NW54	-	140	2 es.t. - 8496
SW53	-	168	3 es.t. - 14680
EW1	-	2664 196	
EW2	-	196	
EW3	-	168	
EW4	-	116	
FL48 FL48 @ 2' H	-	140	
FL49 @ 2' H	-	116	
FL50 @ 4' FL50 @ 4 1/2'	-	3076 452	
FL51 @ 4'	-	536	
WW2	-	1816 260	
WW3	-	2464 548	
WW4	-	168	
FL52 @ 4'	-	500	
FL47 @ 3 1/2'	-	196	
NW52	-	168	
WWA	-	760 228	
FLA @ 1 1/2'	-	404	
FLB @ 1 1/2'	-	364	
NWA	-	168	
NWB	-	196	
FLC @ 1 1/2'	-	148	
FLD @ 1 1/2'	-	200	
FL53 @ 4'	-	592 444	
FL54 @ 4'	-	364	
FL55 @ 4'	-	200	
PL56 @ 4'	-	364	
SW53	-	200	
SW54	-	364	
SW55	-	324	

Sample Point = SP #1 @ ## etc
 Floor = FL #1 etc
 Sidewall = SW #1 etc

Test Trench = TT #1 @ ##
 Refusal = SP #1 @ 4'-R
 Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples = SP #1 @ 5b or SW #1b
 Stockpile = Stockpile #1
 GPS Sample Points, Center of Comp Areas

Appendix C

Photographic Log

Photographic Log

Photo Number: 1	 <p>September 20, 2021 at 11:35 AM +32.036828,-103.599955</p>
Photo Direction: Southeast	
Photo Description: View of the affected area.	

Photo Number: 2	 <p>September 20, 2021 at 11:34 AM +32.037169,-103.599919</p>
Photo Direction: South	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 3	 <p>September 20, 2021 at 06:51 AM +32.036815,-103.600196</p>
Photo Direction: Northwest	
Photo Description: View of the affected area.	

Photo Number: 4	 <p>September 20, 2021 at 07:01 AM +32.037094,-103.601121</p>
Photo Direction: East-Northwest	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 5	
Photo Direction: Northwest	
Photo Description: View of the affected area.	

Photo Number: 6	
Photo Direction: West-Northwest	
Photo Description: View of the affected area.	

Photographic Log

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

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

Photographic Log

Photo Number: 9	 <p>07/12/2021 09:13 +32.038166, -103.604027</p>
Photo Direction: East	
Photo Description: View of the excavated area.	

Photo Number: 10	 <p>07/12/2021 09:12 +32.038449, -103.604348</p>
Photo Direction: East	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 11	
Photo Direction: East	
Photo Description: View of the excavated area.	

Photo Number: 12	
Photo Direction: East	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 13	
Photo Direction: East-Northeast	
Photo Description: View of the excavated area.	

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

Photographic Log

Photo Number: 15	 <p>February 18, 2022 at 1:42 PM +32.036741,-103.600097</p>
Photo Direction: Northeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 16	 <p>February 18, 2022 at 1:41 PM +32.036741,-103.600097</p>
Photo Direction: West	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log

Photo Number: 17	 <p>February 18, 2022 at 1:41 PM +32.037234,-103.601354</p>
Photo Direction: Northwest	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 18	 <p>February 18, 2022 at 1:40 PM +32.037448,-103.602088</p>
Photo Direction: Southeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log

Photo Number: 19	 <p>February 18, 2022 at 1:40 PM +32.037234,-103.601354</p>
Photo Direction: East	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 20	 <p>February 18, 2022 at 1:39 PM +32.038154,-103.604061</p>
Photo Direction: East	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log

Photo Number: 21	 <p>February 18, 2022 at 1:38 PM +32.038651,-103.605806</p>
Photo Direction: East	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 22	 <p>February 18, 2022 at 1:38 PM +32.038203,-103.606719</p>
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

October 12, 2021

JOHN FARRELL

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: ZACH 17-8 W1MD FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 10/08/21 14:15.

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

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,

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:	10/08/2021	Sampling Date:	10/04/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 1 @ 3' (H212826-01)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2021	ND	2.08	104	2.00	4.22	
Toluene*	<0.050	0.050	10/09/2021	ND	2.01	101	2.00	4.93	QR-03
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.98	99.2	2.00	4.14	
Total Xylenes*	<0.150	0.150	10/09/2021	ND	6.06	101	6.00	3.43	
Total BTEX	<0.300	0.300	10/09/2021	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	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	214	107	200	7.83	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	221	111	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-133

Surrogate: 1-Chlorooctadecane 111 % 38.9-142

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/08/2021	Sampling Date:	10/04/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 2 @ 3' (H212826-02)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2021	ND	2.08	104	2.00	4.22	
Toluene*	<0.050	0.050	10/09/2021	ND	2.01	101	2.00	4.93	
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.98	99.2	2.00	4.14	
Total Xylenes*	<0.150	0.150	10/09/2021	ND	6.06	101	6.00	3.43	
Total BTEX	<0.300	0.300	10/09/2021	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	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	214	107	200	7.83	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	221	111	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					

Surrogate: 1-Chlorooctane 115 % 44.3-133

Surrogate: 1-Chlorooctadecane 114 % 38.9-142

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/08/2021	Sampling Date:	10/04/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 3 @ 3' (H212826-03)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2021	ND	2.08	104	2.00	4.22		
Toluene*	<0.050	0.050	10/09/2021	ND	2.01	101	2.00	4.93		
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.98	99.2	2.00	4.14		
Total Xylenes*	<0.150	0.150	10/09/2021	ND	6.06	101	6.00	3.43		
Total BTEX	<0.300	0.300	10/09/2021	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	10/11/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	214	107	200	7.83		
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	221	111	200	12.3		
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND						

Surrogate: 1-Chlorooctane 107 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 38.9-142

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/08/2021	Sampling Date:	10/04/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 4 @ 3' (H212826-04)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2021	ND	2.08	104	2.00	4.22	
Toluene*	<0.050	0.050	10/09/2021	ND	2.01	101	2.00	4.93	
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.98	99.2	2.00	4.14	
Total Xylenes*	<0.150	0.150	10/09/2021	ND	6.06	101	6.00	3.43	
Total BTEX	<0.300	0.300	10/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	214	107	200	7.83	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	221	111	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					

Surrogate: 1-Chlorooctane 116 % 44.3-133

Surrogate: 1-Chlorooctadecane 116 % 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:	10/08/2021	Sampling Date:	10/04/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 5 @ 3' (H212826-05)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2021	ND	2.08	104	2.00	4.22		
Toluene*	<0.050	0.050	10/09/2021	ND	2.01	101	2.00	4.93		
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.98	99.2	2.00	4.14		
Total Xylenes*	<0.150	0.150	10/09/2021	ND	6.06	101	6.00	3.43		
Total BTEX	<0.300	0.300	10/09/2021	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	10/11/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	214	107	200	7.83		
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	221	111	200	12.3		
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND						

Surrogate: 1-Chlorooctane 114 % 44.3-133

Surrogate: 1-Chlorooctadecane 112 % 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
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 HOBBS NM, 88241
 Fax To: NONE

Received:	10/08/2021	Sampling Date:	10/04/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 6 @ 3' (H212826-06)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2021	ND	2.08	104	2.00	4.22	
Toluene*	<0.050	0.050	10/09/2021	ND	2.01	101	2.00	4.93	
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.98	99.2	2.00	4.14	
Total Xylenes*	<0.150	0.150	10/09/2021	ND	6.06	101	6.00	3.43	
Total BTEX	<0.300	0.300	10/09/2021	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	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	214	107	200	7.83	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	221	111	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-133

Surrogate: 1-Chlorooctadecane 108 % 38.9-142

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
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 Fax To: NONE

Received:	10/08/2021	Sampling Date:	10/04/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 7 @ 3' (H212826-07)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2021	ND	2.08	104	2.00	4.22	
Toluene*	<0.050	0.050	10/09/2021	ND	2.01	101	2.00	4.93	
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.98	99.2	2.00	4.14	
Total Xylenes*	<0.150	0.150	10/09/2021	ND	6.06	101	6.00	3.43	
Total BTEX	<0.300	0.300	10/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	214	107	200	7.83	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	221	111	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-133

Surrogate: 1-Chlorooctadecane 109 % 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
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 HOBBS NM, 88241
 Fax To: NONE

Received:	10/08/2021	Sampling Date:	10/04/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 8 @ 3' (H212826-08)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2021	ND	2.08	104	2.00	4.22	
Toluene*	<0.050	0.050	10/09/2021	ND	2.01	101	2.00	4.93	
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.98	99.2	2.00	4.14	
Total Xylenes*	<0.150	0.150	10/09/2021	ND	6.06	101	6.00	3.43	
Total BTEX	<0.300	0.300	10/09/2021	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	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	214	107	200	7.83	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	221	111	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 38.9-142

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Analytical Results For:

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

Received:	10/08/2021	Sampling Date:	10/04/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 9 @ 3' (H212826-09)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2021	ND	2.08	104	2.00	4.22		
Toluene*	<0.050	0.050	10/09/2021	ND	2.01	101	2.00	4.93		
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.98	99.2	2.00	4.14		
Total Xylenes*	<0.150	0.150	10/09/2021	ND	6.06	101	6.00	3.43		
Total BTEX	<0.300	0.300	10/09/2021	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	10/11/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	214	107	200	7.83		
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	221	111	200	12.3		
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND						

Surrogate: 1-Chlorooctane 118 % 44.3-133

Surrogate: 1-Chlorooctadecane 116 % 38.9-142

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 JOHN FARRELL
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 Fax To: NONE

Received:	10/08/2021	Sampling Date:	10/04/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 10 @ 3' (H212826-10)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2021	ND	2.08	104	2.00	4.22		
Toluene*	<0.050	0.050	10/10/2021	ND	2.01	101	2.00	4.93		
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.98	99.2	2.00	4.14		
Total Xylenes*	<0.150	0.150	10/10/2021	ND	6.06	101	6.00	3.43		
Total BTEX	<0.300	0.300	10/10/2021	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	10/11/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	214	107	200	7.83		
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	221	111	200	12.3		
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND						

Surrogate: 1-Chlorooctane 109 % 44.3-133

Surrogate: 1-Chlorooctadecane 107 % 38.9-142

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Analytical Results For:

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

Received:	10/08/2021	Sampling Date:	10/05/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 11 @ 3' (H212826-11)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2021	ND	2.08	104	2.00	4.22	
Toluene*	<0.050	0.050	10/10/2021	ND	2.01	101	2.00	4.93	
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.98	99.2	2.00	4.14	
Total Xylenes*	<0.150	0.150	10/10/2021	ND	6.06	101	6.00	3.43	
Total BTEX	<0.300	0.300	10/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	214	107	200	7.83	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	221	111	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-133

Surrogate: 1-Chlorooctadecane 109 % 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:	10/08/2021	Sampling Date:	10/05/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 12 @ 3' (H212826-12)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2021	ND	2.08	104	2.00	4.22		
Toluene*	<0.050	0.050	10/10/2021	ND	2.01	101	2.00	4.93		
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.98	99.2	2.00	4.14		
Total Xylenes*	<0.150	0.150	10/10/2021	ND	6.06	101	6.00	3.43		
Total BTEX	<0.300	0.300	10/10/2021	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	10/11/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	214	107	200	7.83		
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	221	111	200	12.3		
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND						

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 101 % 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:	10/08/2021	Sampling Date:	10/05/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 13 @ 3' (H212826-13)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2021	ND	2.08	104	2.00	4.22		
Toluene*	<0.050	0.050	10/10/2021	ND	2.01	101	2.00	4.93		
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.98	99.2	2.00	4.14		
Total Xylenes*	<0.150	0.150	10/10/2021	ND	6.06	101	6.00	3.43		
Total BTEX	<0.300	0.300	10/10/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	10/11/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	214	107	200	7.83		
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	221	111	200	12.3		
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND						

Surrogate: 1-Chlorooctane 97.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.3 % 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:	10/08/2021	Sampling Date:	10/05/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 14 @ 3' (H212826-14)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2021	ND	2.08	104	2.00	4.22		
Toluene*	<0.050	0.050	10/10/2021	ND	2.01	101	2.00	4.93		
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.98	99.2	2.00	4.14		
Total Xylenes*	<0.150	0.150	10/10/2021	ND	6.06	101	6.00	3.43		
Total BTEX	<0.300	0.300	10/10/2021	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	10/11/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	214	107	200	7.83		
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	221	111	200	12.3		
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND						

Surrogate: 1-Chlorooctane 113 % 44.3-133

Surrogate: 1-Chlorooctadecane 111 % 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:	10/08/2021	Sampling Date:	10/05/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 15 @ 3' (H212826-15)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2021	ND	2.08	104	2.00	4.22	
Toluene*	<0.050	0.050	10/10/2021	ND	2.01	101	2.00	4.93	
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.98	99.2	2.00	4.14	
Total Xylenes*	<0.150	0.150	10/10/2021	ND	6.06	101	6.00	3.43	
Total BTEX	<0.300	0.300	10/10/2021	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	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2021	ND	214	107	200	7.83	
DRO >C10-C28*	<10.0	10.0	10/09/2021	ND	221	111	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	10/09/2021	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-133

Surrogate: 1-Chlorooctadecane 109 % 38.9-142

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Analytical Results For:

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

Received:	10/08/2021	Sampling Date:	10/05/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 16 @ 3' (H212826-16)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2021	ND	2.08	104	2.00	4.22		
Toluene*	<0.050	0.050	10/10/2021	ND	2.01	101	2.00	4.93		
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.98	99.2	2.00	4.14		
Total Xylenes*	<0.150	0.150	10/10/2021	ND	6.06	101	6.00	3.43		
Total BTEX	<0.300	0.300	10/10/2021	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	10/11/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/09/2021	ND	214	107	200	7.83		
DRO >C10-C28*	<10.0	10.0	10/09/2021	ND	221	111	200	12.3		
EXT DRO >C28-C36	<10.0	10.0	10/09/2021	ND						

Surrogate: 1-Chlorooctane 108 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 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:	10/08/2021	Sampling Date:	10/05/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 17 @ 3' (H212826-17)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2021	ND	2.08	104	2.00	4.22		
Toluene*	<0.050	0.050	10/10/2021	ND	2.01	101	2.00	4.93		
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.98	99.2	2.00	4.14		
Total Xylenes*	<0.150	0.150	10/10/2021	ND	6.06	101	6.00	3.43		
Total BTEX	<0.300	0.300	10/10/2021	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	10/11/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	204	102	200	15.5		
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	195	97.3	200	26.3		
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND						

Surrogate: 1-Chlorooctane 86.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.4 % 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:	10/08/2021	Sampling Date:	10/05/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 18 @ 3' (H212826-18)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2021	ND	2.08	104	2.00	4.22		
Toluene*	<0.050	0.050	10/10/2021	ND	2.01	101	2.00	4.93		
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.98	99.2	2.00	4.14		
Total Xylenes*	<0.150	0.150	10/10/2021	ND	6.06	101	6.00	3.43		
Total BTEX	<0.300	0.300	10/10/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	10/11/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	204	102	200	15.5		
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	195	97.3	200	26.3		
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND						

Surrogate: 1-Chlorooctane 86.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/08/2021	Sampling Date:	10/05/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 19 @ 3' (H212826-19)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2021	ND	2.08	104	2.00	4.22		
Toluene*	<0.050	0.050	10/10/2021	ND	2.01	101	2.00	4.93		
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.98	99.2	2.00	4.14		
Total Xylenes*	<0.150	0.150	10/10/2021	ND	6.06	101	6.00	3.43		
Total BTEX	<0.300	0.300	10/10/2021	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	10/11/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	204	102	200	15.5		
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	195	97.3	200	26.3		
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND						

Surrogate: 1-Chlorooctane 72.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.9 % 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:	10/08/2021	Sampling Date:	10/05/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 20 @ 3' (H212826-20)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2021	ND	2.07	103	2.00	2.47		
Toluene*	<0.050	0.050	10/10/2021	ND	2.00	100	2.00	2.29		
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.96	97.9	2.00	2.51		
Total Xylenes*	<0.150	0.150	10/10/2021	ND	5.95	99.2	6.00	1.91		
Total BTEX	<0.300	0.300	10/10/2021	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	10/11/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	204	102	200	15.5		
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	195	97.3	200	26.3		
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND						

Surrogate: 1-Chlorooctane 81.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.2 % 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:	10/08/2021	Sampling Date:	10/06/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 21 @ 3' (H212826-21)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2021	ND	2.07	103	2.00	2.47	
Toluene*	<0.050	0.050	10/10/2021	ND	2.00	100	2.00	2.29	
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.96	97.9	2.00	2.51	
Total Xylenes*	<0.150	0.150	10/10/2021	ND	5.95	99.2	6.00	1.91	
Total BTEX	<0.300	0.300	10/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	204	102	200	15.5	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	195	97.3	200	26.3	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					

Surrogate: 1-Chlorooctane 97.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/08/2021	Sampling Date:	10/06/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 22 @ 3' (H212826-22)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2021	ND	2.07	103	2.00	2.47		
Toluene*	<0.050	0.050	10/10/2021	ND	2.00	100	2.00	2.29		
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.96	97.9	2.00	2.51		
Total Xylenes*	<0.150	0.150	10/10/2021	ND	5.95	99.2	6.00	1.91		
Total BTEX	<0.300	0.300	10/10/2021	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	10/11/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	204	102	200	15.5		
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	195	97.3	200	26.3		
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND						

Surrogate: 1-Chlorooctane 76.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.4 % 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:	10/08/2021	Sampling Date:	10/06/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 23 @ 3' (H212826-23)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2021	ND	2.07	103	2.00	2.47	
Toluene*	<0.050	0.050	10/10/2021	ND	2.00	100	2.00	2.29	
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.96	97.9	2.00	2.51	
Total Xylenes*	<0.150	0.150	10/10/2021	ND	5.95	99.2	6.00	1.91	
Total BTEX	<0.300	0.300	10/10/2021	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	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	204	102	200	15.5	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	195	97.3	200	26.3	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					

Surrogate: 1-Chlorooctane 84.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.0 % 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:	10/08/2021	Sampling Date:	10/06/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 24 @ 3' (H212826-24)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2021	ND	2.07	103	2.00	2.47	
Toluene*	<0.050	0.050	10/10/2021	ND	2.00	100	2.00	2.29	
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.96	97.9	2.00	2.51	
Total Xylenes*	<0.150	0.150	10/10/2021	ND	5.95	99.2	6.00	1.91	
Total BTEX	<0.300	0.300	10/10/2021	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	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	204	102	200	15.5	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	195	97.3	200	26.3	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					

Surrogate: 1-Chlorooctane 86.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.1 % 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:	10/08/2021	Sampling Date:	10/06/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 25 @ 3' (H212826-25)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2021	ND	2.07	103	2.00	2.47	
Toluene*	<0.050	0.050	10/10/2021	ND	2.00	100	2.00	2.29	
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.96	97.9	2.00	2.51	
Total Xylenes*	<0.150	0.150	10/10/2021	ND	5.95	99.2	6.00	1.91	
Total BTEX	<0.300	0.300	10/10/2021	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	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	204	102	200	15.5	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	195	97.3	200	26.3	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					

Surrogate: 1-Chlorooctane 81.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.9 % 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:	10/08/2021	Sampling Date:	10/06/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 26 @ 3' (H212826-26)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2021	ND	2.07	103	2.00	2.47		
Toluene*	<0.050	0.050	10/10/2021	ND	2.00	100	2.00	2.29		
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.96	97.9	2.00	2.51		
Total Xylenes*	<0.150	0.150	10/10/2021	ND	5.95	99.2	6.00	1.91		
Total BTEX	<0.300	0.300	10/10/2021	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	10/11/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	204	102	200	15.5		
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	195	97.3	200	26.3		
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND						

Surrogate: 1-Chlorooctane 81.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.5 % 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:	10/08/2021	Sampling Date:	10/06/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 27 @ 3' (H212826-27)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2021	ND	2.07	103	2.00	2.47	
Toluene*	<0.050	0.050	10/10/2021	ND	2.00	100	2.00	2.29	
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.96	97.9	2.00	2.51	
Total Xylenes*	<0.150	0.150	10/10/2021	ND	5.95	99.2	6.00	1.91	
Total BTEX	<0.300	0.300	10/10/2021	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	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	204	102	200	15.5	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	195	97.3	200	26.3	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					

Surrogate: 1-Chlorooctane 86.1 % 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:	10/08/2021	Sampling Date:	10/06/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 28 @ 3' (H212826-28)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2021	ND	2.07	103	2.00	2.47		
Toluene*	<0.050	0.050	10/10/2021	ND	2.00	100	2.00	2.29		
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.96	97.9	2.00	2.51		
Total Xylenes*	<0.150	0.150	10/10/2021	ND	5.95	99.2	6.00	1.91		
Total BTEX	<0.300	0.300	10/10/2021	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	10/11/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	204	102	200	15.5		
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	195	97.3	200	26.3		
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND						

Surrogate: 1-Chlorooctane 85.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.0 % 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:	10/08/2021	Sampling Date:	10/06/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 29 @ 3' (H212826-29)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2021	ND	2.07	103	2.00	2.47	
Toluene*	<0.050	0.050	10/10/2021	ND	2.00	100	2.00	2.29	
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.96	97.9	2.00	2.51	
Total Xylenes*	<0.150	0.150	10/10/2021	ND	5.95	99.2	6.00	1.91	
Total BTEX	<0.300	0.300	10/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	204	102	200	15.5	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	195	97.3	200	26.3	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.8 % 38.9-142

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Analytical Results For:

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

Received:	10/08/2021	Sampling Date:	10/06/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 30 @ 3' (H212826-30)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2021	ND	2.07	103	2.00	2.47	
Toluene*	<0.050	0.050	10/10/2021	ND	2.00	100	2.00	2.29	
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.96	97.9	2.00	2.51	
Total Xylenes*	<0.150	0.150	10/10/2021	ND	5.95	99.2	6.00	1.91	
Total BTEX	<0.300	0.300	10/10/2021	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	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	204	102	200	15.5	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	195	97.3	200	26.3	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					

Surrogate: 1-Chlorooctane 85.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.0 % 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:	10/08/2021	Sampling Date:	10/07/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 31 @ 3' (H212826-31)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2021	ND	2.07	103	2.00	2.47		
Toluene*	<0.050	0.050	10/10/2021	ND	2.00	100	2.00	2.29		
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.96	97.9	2.00	2.51		
Total Xylenes*	<0.150	0.150	10/10/2021	ND	5.95	99.2	6.00	1.91		
Total BTEX	<0.300	0.300	10/10/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	10/11/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/09/2021	ND	204	102	200	15.5		
DRO >C10-C28*	<10.0	10.0	10/09/2021	ND	195	97.3	200	26.3		
EXT DRO >C28-C36	<10.0	10.0	10/09/2021	ND						

Surrogate: 1-Chlorooctane 89.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.7 % 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:	10/08/2021	Sampling Date:	10/07/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 32 @ 3' (H212826-32)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2021	ND	2.07	103	2.00	2.47		
Toluene*	<0.050	0.050	10/10/2021	ND	2.00	100	2.00	2.29		
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.96	97.9	2.00	2.51		
Total Xylenes*	<0.150	0.150	10/10/2021	ND	5.95	99.2	6.00	1.91		
Total BTEX	<0.300	0.300	10/10/2021	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	10/11/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/09/2021	ND	204	102	200	15.5		
DRO >C10-C28*	<10.0	10.0	10/09/2021	ND	195	97.3	200	26.3		
EXT DRO >C28-C36	<10.0	10.0	10/09/2021	ND						

Surrogate: 1-Chlorooctane 78.9 % 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:	10/08/2021	Sampling Date:	10/07/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 33 @ 3' (H212826-33)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2021	ND	2.07	103	2.00	2.47	
Toluene*	<0.050	0.050	10/10/2021	ND	2.00	100	2.00	2.29	
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.96	97.9	2.00	2.51	
Total Xylenes*	<0.150	0.150	10/10/2021	ND	5.95	99.2	6.00	1.91	
Total BTEX	<0.300	0.300	10/10/2021	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	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2021	ND	204	102	200	15.5	
DRO >C10-C28*	<10.0	10.0	10/09/2021	ND	195	97.3	200	26.3	
EXT DRO >C28-C36	<10.0	10.0	10/09/2021	ND					

Surrogate: 1-Chlorooctane 82.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.5 % 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:	10/08/2021	Sampling Date:	10/07/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 34 @ 3' (H212826-34)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2021	ND	2.07	103	2.00	2.47	
Toluene*	<0.050	0.050	10/10/2021	ND	2.00	100	2.00	2.29	
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.96	97.9	2.00	2.51	
Total Xylenes*	<0.150	0.150	10/10/2021	ND	5.95	99.2	6.00	1.91	
Total BTEX	<0.300	0.300	10/10/2021	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	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2021	ND	204	102	200	15.5	
DRO >C10-C28*	<10.0	10.0	10/09/2021	ND	195	97.3	200	26.3	
EXT DRO >C28-C36	<10.0	10.0	10/09/2021	ND					

Surrogate: 1-Chlorooctane 84.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.6 % 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:	10/08/2021	Sampling Date:	10/07/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 35 @ 3' (H212826-35)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2021	ND	2.07	103	2.00	2.47	
Toluene*	<0.050	0.050	10/10/2021	ND	2.00	100	2.00	2.29	
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.96	97.9	2.00	2.51	
Total Xylenes*	<0.150	0.150	10/10/2021	ND	5.95	99.2	6.00	1.91	
Total BTEX	<0.300	0.300	10/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2021	ND	204	102	200	15.5	
DRO >C10-C28*	<10.0	10.0	10/09/2021	ND	195	97.3	200	26.3	
EXT DRO >C28-C36	<10.0	10.0	10/09/2021	ND					

Surrogate: 1-Chlorooctane 81.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.0 % 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:	10/08/2021	Sampling Date:	10/07/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 36 @ 3' (H212826-36)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2021	ND	2.07	103	2.00	2.47		
Toluene*	<0.050	0.050	10/10/2021	ND	2.00	100	2.00	2.29		
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.96	97.9	2.00	2.51		
Total Xylenes*	<0.150	0.150	10/10/2021	ND	5.95	99.2	6.00	1.91		
Total BTEX	<0.300	0.300	10/10/2021	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	10/11/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/09/2021	ND	204	102	200	15.5		
DRO >C10-C28*	<10.0	10.0	10/09/2021	ND	195	97.3	200	26.3		
EXT DRO >C28-C36	<10.0	10.0	10/09/2021	ND						

Surrogate: 1-Chlorooctane 84.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.9 % 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:	10/08/2021	Sampling Date:	10/07/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 37 @ 3' (H212826-37)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2021	ND	2.07	103	2.00	2.47	
Toluene*	<0.050	0.050	10/10/2021	ND	2.00	100	2.00	2.29	
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.96	97.9	2.00	2.51	
Total Xylenes*	<0.150	0.150	10/10/2021	ND	5.95	99.2	6.00	1.91	
Total BTEX	<0.300	0.300	10/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	217	108	200	8.35	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	217	109	200	8.16	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-133

Surrogate: 1-Chlorooctadecane 118 % 38.9-142

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Analytical Results For:

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

Received:	10/08/2021	Sampling Date:	10/07/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 38 @ 3' (H212826-38)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2021	ND	2.07	103	2.00	2.47		
Toluene*	<0.050	0.050	10/10/2021	ND	2.00	100	2.00	2.29		
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.96	97.9	2.00	2.51		
Total Xylenes*	<0.150	0.150	10/10/2021	ND	5.95	99.2	6.00	1.91		
Total BTEX	<0.300	0.300	10/10/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/11/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	217	108	200	8.35		
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	217	109	200	8.16		
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND						

Surrogate: 1-Chlorooctane 93.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.2 % 38.9-142

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Analytical Results For:

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

Received:	10/08/2021	Sampling Date:	10/07/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 39 @ 3' (H212826-39)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2021	ND	2.07	103	2.00	2.47	
Toluene*	<0.050	0.050	10/10/2021	ND	2.00	100	2.00	2.29	
Ethylbenzene*	<0.050	0.050	10/10/2021	ND	1.96	97.9	2.00	2.51	
Total Xylenes*	<0.150	0.150	10/10/2021	ND	5.95	99.2	6.00	1.91	
Total BTEX	<0.300	0.300	10/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	<16.0	16.0	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	217	108	200	8.35	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	217	109	200	8.16	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					

Surrogate: 1-Chlorooctane 88.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.3 % 38.9-142

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Analytical Results For:

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

Received:	10/08/2021	Sampling Date:	10/07/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 40 @ 3' (H212826-40)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2021	ND	1.81	90.7	2.00	11.8	
Toluene*	<0.050	0.050	10/09/2021	ND	1.84	91.8	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.79	89.4	2.00	11.8	
Total Xylenes*	<0.150	0.150	10/09/2021	ND	5.32	88.7	6.00	12.6	
Total BTEX	<0.300	0.300	10/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	217	108	200	8.35	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	217	109	200	8.16	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					

Surrogate: 1-Chlorooctane 98.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.0 % 38.9-142

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Analytical Results For:

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

Received:	10/08/2021	Sampling Date:	10/07/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 41 @ 3' (H212826-41)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2021	ND	1.81	90.7	2.00	11.8	
Toluene*	<0.050	0.050	10/09/2021	ND	1.84	91.8	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.79	89.4	2.00	11.8	
Total Xylenes*	<0.150	0.150	10/09/2021	ND	5.32	88.7	6.00	12.6	
Total BTEX	<0.300	0.300	10/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	217	108	200	8.35	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	217	109	200	8.16	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					

Surrogate: 1-Chlorooctane 95.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.0 % 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:	10/08/2021	Sampling Date:	10/07/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 42 @ 3' (H212826-42)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2021	ND	1.81	90.7	2.00	11.8		
Toluene*	<0.050	0.050	10/09/2021	ND	1.84	91.8	2.00	11.2		
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.79	89.4	2.00	11.8		
Total Xylenes*	<0.150	0.150	10/09/2021	ND	5.32	88.7	6.00	12.6		
Total BTEX	<0.300	0.300	10/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	10/11/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	217	108	200	8.35		
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	217	109	200	8.16		
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND						

Surrogate: 1-Chlorooctane 97.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.7 % 38.9-142

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Analytical Results For:

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

Received:	10/08/2021	Sampling Date:	10/07/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 43 @ 3' (H212826-43)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2021	ND	1.81	90.7	2.00	11.8	
Toluene*	<0.050	0.050	10/09/2021	ND	1.84	91.8	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.79	89.4	2.00	11.8	
Total Xylenes*	<0.150	0.150	10/09/2021	ND	5.32	88.7	6.00	12.6	
Total BTEX	<0.300	0.300	10/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	217	108	200	8.35	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	217	109	200	8.16	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-133

Surrogate: 1-Chlorooctadecane 108 % 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:	10/08/2021	Sampling Date:	10/07/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 44 @ 3' (H212826-44)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2021	ND	1.81	90.7	2.00	11.8		
Toluene*	<0.050	0.050	10/09/2021	ND	1.84	91.8	2.00	11.2		
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.79	89.4	2.00	11.8		
Total Xylenes*	<0.150	0.150	10/09/2021	ND	5.32	88.7	6.00	12.6		
Total BTEX	<0.300	0.300	10/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	10/11/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	217	108	200	8.35		
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	217	109	200	8.16		
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND						

Surrogate: 1-Chlorooctane 84.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.7 % 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:	10/08/2021	Sampling Date:	10/07/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 45 @ 3' (H212826-45)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2021	ND	1.81	90.7	2.00	11.8	
Toluene*	<0.050	0.050	10/09/2021	ND	1.84	91.8	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.79	89.4	2.00	11.8	
Total Xylenes*	<0.150	0.150	10/09/2021	ND	5.32	88.7	6.00	12.6	
Total BTEX	<0.300	0.300	10/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	217	108	200	8.35	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	217	109	200	8.16	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					

Surrogate: 1-Chlorooctane 98.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.3 % 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:	10/08/2021	Sampling Date:	10/07/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 46 @ 3' (H212826-46)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2021	ND	1.81	90.7	2.00	11.8	
Toluene*	<0.050	0.050	10/09/2021	ND	1.84	91.8	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.79	89.4	2.00	11.8	
Total Xylenes*	<0.150	0.150	10/09/2021	ND	5.32	88.7	6.00	12.6	
Total BTEX	<0.300	0.300	10/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	217	108	200	8.35	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	217	109	200	8.16	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					

Surrogate: 1-Chlorooctane 84.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.3 % 38.9-142

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Analytical Results For:

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

Received:	10/08/2021	Sampling Date:	10/07/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 47 @ 3' (H212826-47)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2021	ND	1.81	90.7	2.00	11.8	
Toluene*	<0.050	0.050	10/09/2021	ND	1.84	91.8	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.79	89.4	2.00	11.8	
Total Xylenes*	<0.150	0.150	10/09/2021	ND	5.32	88.7	6.00	12.6	
Total BTEX	<0.300	0.300	10/09/2021	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	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	217	108	200	8.35	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	217	109	200	8.16	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					

Surrogate: 1-Chlorooctane 98.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.3 % 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:	10/08/2021	Sampling Date:	10/07/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 48 @ 3' (H212826-48)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2021	ND	1.81	90.7	2.00	11.8		
Toluene*	<0.050	0.050	10/09/2021	ND	1.84	91.8	2.00	11.2		
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.79	89.4	2.00	11.8		
Total Xylenes*	<0.150	0.150	10/09/2021	ND	5.32	88.7	6.00	12.6		
Total BTEX	<0.300	0.300	10/09/2021	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/11/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	217	108	200	8.35		
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	217	109	200	8.16		
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND						

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 105 % 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:	10/08/2021	Sampling Date:	10/07/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 49 @ 3' (H212826-49)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2021	ND	1.81	90.7	2.00	11.8	
Toluene*	<0.050	0.050	10/09/2021	ND	1.84	91.8	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.79	89.4	2.00	11.8	
Total Xylenes*	<0.150	0.150	10/09/2021	ND	5.32	88.7	6.00	12.6	
Total BTEX	<0.300	0.300	10/09/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	217	108	200	8.35	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	217	109	200	8.16	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					

Surrogate: 1-Chlorooctane 97.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 100 % 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:	10/08/2021	Sampling Date:	10/07/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 50 @ 3' (H212826-50)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2021	ND	1.81	90.7	2.00	11.8	
Toluene*	<0.050	0.050	10/09/2021	ND	1.84	91.8	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.79	89.4	2.00	11.8	
Total Xylenes*	<0.150	0.150	10/09/2021	ND	5.32	88.7	6.00	12.6	
Total BTEX	<0.300	0.300	10/09/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/11/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	217	108	200	8.35	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	217	109	200	8.16	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 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:	10/08/2021	Sampling Date:	10/08/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 51 @ 3' (H212826-51)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2021	ND	1.81	90.7	2.00	11.8	
Toluene*	<0.050	0.050	10/09/2021	ND	1.84	91.8	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.79	89.4	2.00	11.8	
Total Xylenes*	<0.150	0.150	10/09/2021	ND	5.32	88.7	6.00	12.6	
Total BTEX	<0.300	0.300	10/09/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/11/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2021	ND	217	108	200	8.35	
DRO >C10-C28*	<10.0	10.0	10/09/2021	ND	217	109	200	8.16	
EXT DRO >C28-C36	<10.0	10.0	10/09/2021	ND					

Surrogate: 1-Chlorooctane 95.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.0 % 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:	10/08/2021	Sampling Date:	10/08/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 52 @ 3' (H212826-52)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2021	ND	1.81	90.7	2.00	11.8		
Toluene*	<0.050	0.050	10/09/2021	ND	1.84	91.8	2.00	11.2		
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.79	89.4	2.00	11.8		
Total Xylenes*	<0.150	0.150	10/09/2021	ND	5.32	88.7	6.00	12.6		
Total BTEX	<0.300	0.300	10/09/2021	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/11/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/09/2021	ND	217	108	200	8.35		
DRO >C10-C28*	<10.0	10.0	10/09/2021	ND	217	109	200	8.16		
EXT DRO >C28-C36	<10.0	10.0	10/09/2021	ND						

Surrogate: 1-Chlorooctane 93.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.0 % 38.9-142

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Analytical Results For:

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

Received:	10/08/2021	Sampling Date:	10/08/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 53 @ 3' (H212826-53)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2021	ND	1.81	90.7	2.00	11.8	
Toluene*	<0.050	0.050	10/09/2021	ND	1.84	91.8	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.79	89.4	2.00	11.8	
Total Xylenes*	<0.150	0.150	10/09/2021	ND	5.32	88.7	6.00	12.6	
Total BTEX	<0.300	0.300	10/09/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/11/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2021	ND	217	108	200	8.35	
DRO >C10-C28*	<10.0	10.0	10/09/2021	ND	217	109	200	8.16	
EXT DRO >C28-C36	<10.0	10.0	10/09/2021	ND					

Surrogate: 1-Chlorooctane 97.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.4 % 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:	10/08/2021	Sampling Date:	10/08/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 54 @ 3' (H212826-54)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2021	ND	1.81	90.7	2.00	11.8	
Toluene*	<0.050	0.050	10/09/2021	ND	1.84	91.8	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.79	89.4	2.00	11.8	
Total Xylenes*	<0.150	0.150	10/09/2021	ND	5.32	88.7	6.00	12.6	
Total BTEX	<0.300	0.300	10/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	10/11/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2021	ND	217	108	200	8.35	
DRO >C10-C28*	<10.0	10.0	10/09/2021	ND	217	109	200	8.16	
EXT DRO >C28-C36	<10.0	10.0	10/09/2021	ND					

Surrogate: 1-Chlorooctane 94.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.8 % 38.9-142

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Analytical Results For:

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

Received:	10/08/2021	Sampling Date:	10/08/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 55 @ 3' (H212826-55)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2021	ND	1.81	90.7	2.00	11.8	
Toluene*	<0.050	0.050	10/09/2021	ND	1.84	91.8	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.79	89.4	2.00	11.8	
Total Xylenes*	<0.150	0.150	10/09/2021	ND	5.32	88.7	6.00	12.6	
Total BTEX	<0.300	0.300	10/09/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/11/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2021	ND	217	108	200	8.35	
DRO >C10-C28*	<10.0	10.0	10/09/2021	ND	217	109	200	8.16	
EXT DRO >C28-C36	<10.0	10.0	10/09/2021	ND					

Surrogate: 1-Chlorooctane 114 % 44.3-133

Surrogate: 1-Chlorooctadecane 116 % 38.9-142

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Analytical Results For:

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

Received:	10/08/2021	Sampling Date:	10/08/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 56 @ 3' (H212826-56)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2021	ND	1.81	90.7	2.00	11.8	
Toluene*	<0.050	0.050	10/09/2021	ND	1.84	91.8	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.79	89.4	2.00	11.8	
Total Xylenes*	<0.150	0.150	10/09/2021	ND	5.32	88.7	6.00	12.6	
Total BTEX	<0.300	0.300	10/09/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/11/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2021	ND	217	108	200	8.35	
DRO >C10-C28*	<10.0	10.0	10/09/2021	ND	217	109	200	8.16	
EXT DRO >C28-C36	<10.0	10.0	10/09/2021	ND					

Surrogate: 1-Chlorooctane 93.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.3 % 38.9-142

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Analytical Results For:

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

Received:	10/08/2021	Sampling Date:	10/08/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 57 @ 3' (H212826-57)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2021	ND	1.81	90.7	2.00	11.8	
Toluene*	<0.050	0.050	10/09/2021	ND	1.84	91.8	2.00	11.2	
Ethylbenzene*	<0.050	0.050	10/09/2021	ND	1.79	89.4	2.00	11.8	
Total Xylenes*	<0.150	0.150	10/09/2021	ND	5.32	88.7	6.00	12.6	
Total BTEX	<0.300	0.300	10/09/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/11/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2021	ND	216	108	200	3.45	
DRO >C10-C28*	<10.0	10.0	10/09/2021	ND	214	107	200	2.98	
EXT DRO >C28-C36	<10.0	10.0	10/09/2021	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-133

Surrogate: 1-Chlorooctadecane 107 % 38.9-142

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Analytical Results For:

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

Received:	10/08/2021	Sampling Date:	10/08/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 58 @ 3' (H212826-58)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2021	ND	1.88	93.8	2.00	6.03	
Toluene*	<0.050	0.050	10/12/2021	ND	1.82	91.2	2.00	6.25	
Ethylbenzene*	<0.050	0.050	10/12/2021	ND	1.79	89.6	2.00	6.17	
Total Xylenes*	<0.150	0.150	10/12/2021	ND	5.45	90.8	6.00	6.08	
Total BTEX	<0.300	0.300	10/12/2021	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	10/11/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2021	ND	216	108	200	3.45	
DRO >C10-C28*	<10.0	10.0	10/09/2021	ND	214	107	200	2.98	
EXT DRO >C28-C36	<10.0	10.0	10/09/2021	ND					

Surrogate: 1-Chlorooctane 99.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.5 % 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:	10/08/2021	Sampling Date:	10/08/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 59 @ 3' (H212826-59)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/12/2021	ND	1.88	93.8	2.00	6.03		
Toluene*	<0.050	0.050	10/12/2021	ND	1.82	91.2	2.00	6.25		
Ethylbenzene*	<0.050	0.050	10/12/2021	ND	1.79	89.6	2.00	6.17		
Total Xylenes*	<0.150	0.150	10/12/2021	ND	5.45	90.8	6.00	6.08		
Total BTEX	<0.300	0.300	10/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	10/11/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/09/2021	ND	216	108	200	3.45		
DRO >C10-C28*	<10.0	10.0	10/09/2021	ND	214	107	200	2.98		
EXT DRO >C28-C36	<10.0	10.0	10/09/2021	ND						

Surrogate: 1-Chlorooctane 111 % 44.3-133

Surrogate: 1-Chlorooctadecane 111 % 38.9-142

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Analytical Results For:

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

Received:	10/08/2021	Sampling Date:	10/08/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 60 @ 3' (H212826-60)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2021	ND	1.92	96.2	2.00	11.7		
Toluene*	<0.050	0.050	10/11/2021	ND	1.88	94.2	2.00	11.7		
Ethylbenzene*	<0.050	0.050	10/11/2021	ND	1.85	92.5	2.00	11.5		
Total Xylenes*	<0.150	0.150	10/11/2021	ND	5.62	93.7	6.00	10.7		
Total BTEX	<0.300	0.300	10/11/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	<16.0	16.0	10/11/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/09/2021	ND	216	108	200	3.45		
DRO >C10-C28*	<10.0	10.0	10/09/2021	ND	214	107	200	2.98		
EXT DRO >C28-C36	<10.0	10.0	10/09/2021	ND						

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 102 % 38.9-142

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Analytical Results For:

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

Received:	10/08/2021	Sampling Date:	10/08/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 61 @ 3' (H212826-61)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2021	ND	1.92	96.2	2.00	11.7	
Toluene*	<0.050	0.050	10/11/2021	ND	1.88	94.2	2.00	11.7	
Ethylbenzene*	<0.050	0.050	10/11/2021	ND	1.85	92.5	2.00	11.5	
Total Xylenes*	<0.150	0.150	10/11/2021	ND	5.62	93.7	6.00	10.7	
Total BTEX	<0.300	0.300	10/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	10/11/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2021	ND	216	108	200	3.45	
DRO >C10-C28*	<10.0	10.0	10/09/2021	ND	214	107	200	2.98	
EXT DRO >C28-C36	<10.0	10.0	10/09/2021	ND					

Surrogate: 1-Chlorooctane 99.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.7 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/08/2021	Sampling Date:	10/08/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 62 @ 3' (H212826-62)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2021	ND	1.92	96.2	2.00	11.7	
Toluene*	<0.050	0.050	10/11/2021	ND	1.88	94.2	2.00	11.7	
Ethylbenzene*	<0.050	0.050	10/11/2021	ND	1.85	92.5	2.00	11.5	
Total Xylenes*	<0.150	0.150	10/11/2021	ND	5.62	93.7	6.00	10.7	
Total BTEX	<0.300	0.300	10/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	10/11/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2021	ND	216	108	200	3.45	
DRO >C10-C28*	<10.0	10.0	10/09/2021	ND	214	107	200	2.98	
EXT DRO >C28-C36	<10.0	10.0	10/09/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 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:	10/08/2021	Sampling Date:	10/08/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 63 @ 3' (H212826-63)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2021	ND	1.92	96.2	2.00	11.7	
Toluene*	<0.050	0.050	10/11/2021	ND	1.88	94.2	2.00	11.7	
Ethylbenzene*	<0.050	0.050	10/11/2021	ND	1.85	92.5	2.00	11.5	
Total Xylenes*	<0.150	0.150	10/11/2021	ND	5.62	93.7	6.00	10.7	
Total BTEX	<0.300	0.300	10/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	10/11/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2021	ND	216	108	200	3.45	
DRO >C10-C28*	<10.0	10.0	10/09/2021	ND	214	107	200	2.98	
EXT DRO >C28-C36	<10.0	10.0	10/09/2021	ND					

Surrogate: 1-Chlorooctane 99.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.4 % 38.9-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/08/2021	Sampling Date:	10/08/2021
Reported:	10/12/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SD - 64 @ 3' (H212826-64)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2021	ND	1.92	96.2	2.00	11.7		
Toluene*	<0.050	0.050	10/11/2021	ND	1.88	94.2	2.00	11.7		
Ethylbenzene*	<0.050	0.050	10/11/2021	ND	1.85	92.5	2.00	11.5		
Total Xylenes*	<0.150	0.150	10/11/2021	ND	5.62	93.7	6.00	10.7		
Total BTEX	<0.300	0.300	10/11/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	10/11/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/09/2021	ND	216	108	200	3.45		
DRO >C10-C28*	<10.0	10.0	10/09/2021	ND	214	107	200	2.98		
EXT DRO >C28-C36	<10.0	10.0	10/09/2021	ND						

Surrogate: 1-Chlorooctane 97.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.2 % 38.9-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Trinity Oilfield Services & Rentals LLC		BILL TO		ANALYSIS REQUEST											
Project Manager: John Farrell		P.O. #:													
Address: 8426 N Dal Paso		Company: Mewbourne Oil Co													
City: Hobbs St NM Zip 88241		Attn: Robbie Runnels													
Phone #: 575 390-7560 Fax #:		Address: 701 S Cecil St													
Project #:		Project Owner: john@trinityoilfieldservices.com		City: Hobbs											
Project Name: Zach 17-8 W1MD Fed Com 1H		State: NM Zip: 88240													
Project Location: Lea County, NM		Phone #: 5756022188													
Sampler Name: Kenny		Fax #:													

FOR LAB USE ONLY	Lab I.D.	Sample I.D.	GIRAB OR (COMP. # CONTAINERS	MATRIX					PRESERV		SAMPLING		DATE	TIME	BTEX	TPH	Chloride
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:					
	Hal18826																
	1	SD-1 @ 3'	G 1			X				X		10/4/2021	9:00	X	X	X	
	2	SD-2 @ 3'	G 1			X				X		10/4/2021	9:05	X	X	X	
	3	SD-3 @ 3'	G 1			X				X		10/4/2021	9:10	X	X	X	
	4	SD-4 @ 3'	G 1			X				X		10/4/2021	9:15	X	X	X	
	5	SD-5 @ 3'	G 1			X				X		10/4/2021	9:20	X	X	X	
	6	SD-6 @ 3'	G 1			X				X		10/4/2021	9:25	X	X	X	
	7	SD-7 @ 3'	G 1			X				X		10/4/2021	9:30	X	X	X	
	8	SD-8 @ 3'	G 1			X				X		10/4/2021	9:35	X	X	X	
	9	SD-9 @ 3'	G 1			X				X		10/4/2021	9:40	X	X	X	
	10	SD-10 @ 3'	G 1			X				X		10/4/2021	9:45	X	X	X	

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Relinquished By: <i>John Farrell</i>	Date: 10/8/21	Received By: <i>Jamara Elda Key</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address:
Delivered By: (Circle One)	Observed Temp. °C 4.0	Sample Condition Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C 3.5	CHECKED BY: (Initials) <i>JK</i>	Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Observed Temp. °C
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
		<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> No
		Thermometer ID <i>1015</i>	Correction Factor +0.2 °C
		<i>#113</i>	<i>10/8/21</i>

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



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

January 06, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZACH 17-8 W1MD FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 01/03/22 12:35.

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

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/03/2022	Sampling Date:	12/30/2021
Reported:	01/06/2022	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 40 (H220004-01)

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	01/03/2022	ND	2.06	103	2.00	4.45		
Toluene*	<0.050	0.050	01/03/2022	ND	2.00	100	2.00	4.85		
Ethylbenzene*	<0.050	0.050	01/03/2022	ND	1.95	97.4	2.00	4.86		
Total Xylenes*	<0.150	0.150	01/03/2022	ND	5.93	98.8	6.00	5.20		
Total BTEX	<0.300	0.300	01/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/05/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/04/2022	ND	211	106	200	0.684		
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	199	99.5	200	2.90		
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND						

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.6 % 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:	01/03/2022	Sampling Date:	12/30/2021
Reported:	01/06/2022	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 41 (H220004-02)

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	01/03/2022	ND	2.06	103	2.00	4.45	
Toluene*	<0.050	0.050	01/03/2022	ND	2.00	100	2.00	4.85	
Ethylbenzene*	<0.050	0.050	01/03/2022	ND	1.95	97.4	2.00	4.86	
Total Xylenes*	<0.150	0.150	01/03/2022	ND	5.93	98.8	6.00	5.20	
Total BTEX	<0.300	0.300	01/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 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	32.0	16.0	01/05/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2022	ND	211	106	200	0.684	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	199	99.5	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 99.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.9 % 59.5-142

Cardinal Laboratories

*=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:	01/03/2022	Sampling Date:	12/30/2021
Reported:	01/06/2022	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 49 (H220004-03)

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	01/03/2022	ND	2.06	103	2.00	4.45	
Toluene*	<0.050	0.050	01/03/2022	ND	2.00	100	2.00	4.85	
Ethylbenzene*	<0.050	0.050	01/03/2022	ND	1.95	97.4	2.00	4.86	
Total Xylenes*	<0.150	0.150	01/03/2022	ND	5.93	98.8	6.00	5.20	
Total BTEX	<0.300	0.300	01/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 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	48.0	16.0	01/05/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2022	ND	211	106	200	0.684	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	199	99.5	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 90.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.4 % 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:	01/03/2022	Sampling Date:	12/30/2021
Reported:	01/06/2022	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 50 (H220004-04)

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	01/03/2022	ND	2.06	103	2.00	4.45	
Toluene*	<0.050	0.050	01/03/2022	ND	2.00	100	2.00	4.85	
Ethylbenzene*	<0.050	0.050	01/03/2022	ND	1.95	97.4	2.00	4.86	
Total Xylenes*	<0.150	0.150	01/03/2022	ND	5.93	98.8	6.00	5.20	
Total BTEX	<0.300	0.300	01/03/2022	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	16.0	16.0	01/05/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2022	ND	211	106	200	0.684	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	199	99.5	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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

Analytical Results For:

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

Received:	01/03/2022	Sampling Date:	12/30/2021
Reported:	01/06/2022	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 51 (H220004-05)

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	01/03/2022	ND	2.06	103	2.00	4.45	
Toluene*	<0.050	0.050	01/03/2022	ND	2.00	100	2.00	4.85	
Ethylbenzene*	<0.050	0.050	01/03/2022	ND	1.95	97.4	2.00	4.86	
Total Xylenes*	<0.150	0.150	01/03/2022	ND	5.93	98.8	6.00	5.20	
Total BTEX	<0.300	0.300	01/03/2022	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	112	16.0	01/05/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2022	ND	211	106	200	0.684	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	199	99.5	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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

Analytical Results For:

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

Received:	01/03/2022	Sampling Date:	12/30/2021
Reported:	01/06/2022	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 40 (H220004-06)

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	01/03/2022	ND	2.06	103	2.00	4.45	
Toluene*	<0.050	0.050	01/03/2022	ND	2.00	100	2.00	4.85	
Ethylbenzene*	<0.050	0.050	01/03/2022	ND	1.95	97.4	2.00	4.86	
Total Xylenes*	<0.150	0.150	01/03/2022	ND	5.93	98.8	6.00	5.20	
Total BTEX	<0.300	0.300	01/03/2022	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	112	16.0	01/05/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2022	ND	214	107	200	3.14	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	225	112	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 81.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.4 % 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:	01/03/2022	Sampling Date:	12/30/2021
Reported:	01/06/2022	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 41 (H220004-07)

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	01/03/2022	ND	2.06	103	2.00	4.45	
Toluene*	<0.050	0.050	01/03/2022	ND	2.00	100	2.00	4.85	
Ethylbenzene*	<0.050	0.050	01/03/2022	ND	1.95	97.4	2.00	4.86	
Total Xylenes*	<0.150	0.150	01/03/2022	ND	5.93	98.8	6.00	5.20	
Total BTEX	<0.300	0.300	01/03/2022	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	240	16.0	01/05/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2022	ND	214	107	200	3.14	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	225	112	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 80.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.0 % 59.5-142

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Analytical Results For:

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

Received:	01/03/2022	Sampling Date:	12/30/2021
Reported:	01/06/2022	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 49 (H220004-08)

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	01/03/2022	ND	2.06	103	2.00	4.45	
Toluene*	<0.050	0.050	01/03/2022	ND	2.00	100	2.00	4.85	
Ethylbenzene*	<0.050	0.050	01/03/2022	ND	1.95	97.4	2.00	4.86	
Total Xylenes*	<0.150	0.150	01/03/2022	ND	5.93	98.8	6.00	5.20	
Total BTEX	<0.300	0.300	01/03/2022	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	32.0	16.0	01/05/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2022	ND	214	107	200	3.14	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	225	112	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 79.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.1 % 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:	01/03/2022	Sampling Date:	12/30/2021
Reported:	01/06/2022	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 50 (H220004-09)

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	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	
Total BTEX	<0.300	0.300	01/04/2022	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	01/05/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2022	ND	214	107	200	3.14	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	225	112	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 81.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.6 % 59.5-142

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

Analytical Results For:

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

Received:	01/03/2022	Sampling Date:	12/30/2021
Reported:	01/06/2022	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 51 (H220004-10)

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	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	
Total BTEX	<0.300	0.300	01/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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	01/05/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2022	ND	214	107	200	3.14	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	225	112	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 75.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 76.4 % 59.5-142

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

Analytical Results For:

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

Received:	01/03/2022	Sampling Date:	12/30/2021
Reported:	01/06/2022	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 52 (H220004-11)

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	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	
Total BTEX	<0.300	0.300	01/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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	01/05/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2022	ND	214	107	200	3.14	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	225	112	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 75.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.3 % 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:	01/03/2022	Sampling Date:	12/30/2021
Reported:	01/06/2022	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 33 (H220004-12)

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	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	
Total BTEX	<0.300	0.300	01/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	176	16.0	01/05/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2022	ND	214	107	200	3.14	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	225	112	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 79.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.5 % 59.5-142

Cardinal Laboratories

*=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:	01/03/2022	Sampling Date:	12/30/2021
Reported:	01/06/2022	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 34 (H220004-13)

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	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	
Total BTEX	<0.300	0.300	01/04/2022	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	80.0	16.0	01/05/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2022	ND	214	107	200	3.14	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	225	112	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 80.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.3 % 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:	01/03/2022	Sampling Date:	12/30/2021
Reported:	01/06/2022	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 43 (H220004-14)

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	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	
Total BTEX	<0.300	0.300	01/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 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	384	16.0	01/05/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2022	ND	214	107	200	3.14	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	225	112	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 79.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.4 % 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:	01/03/2022	Sampling Date:	12/30/2021
Reported:	01/06/2022	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 44 (H220004-15)

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	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	
Total BTEX	<0.300	0.300	01/04/2022	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	256	16.0	01/05/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2022	ND	214	107	200	3.14	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	225	112	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 74.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 76.6 % 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:	01/03/2022	Sampling Date:	12/30/2021
Reported:	01/06/2022	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 45 (H220004-16)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	
Total BTEX	<0.300	0.300	01/04/2022	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	352	16.0	01/05/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2022	ND	214	107	200	3.14	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	225	112	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 83.9 % 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



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Analytical Results For:

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

Received:	01/03/2022	Sampling Date:	12/30/2021
Reported:	01/06/2022	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 46 (H220004-17)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	
Total BTEX	<0.300	0.300	01/04/2022	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	01/05/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2022	ND	214	107	200	3.14	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	225	112	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 79.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.9 % 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

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



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

December 06, 2021

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZACH 17-8 W2MD FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 12/02/21 15:15.

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

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:	12/02/2021	Sampling Date:	12/01/2021
Reported:	12/06/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 4 @ 3' (H213464-01)

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	12/04/2021	ND	2.11	105	2.00	0.603	
Toluene*	<0.050	0.050	12/04/2021	ND	2.06	103	2.00	0.585	
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.02	101	2.00	0.118	
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.12	102	6.00	0.00774	
Total BTEX	<0.300	0.300	12/04/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/04/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	218	109	200	0.574	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	208	104	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 89.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.5 % 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:

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

Received:	12/02/2021	Sampling Date:	12/01/2021
Reported:	12/06/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 5 @ 3' (H213464-02)

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	12/04/2021	ND	2.11	105	2.00	0.603	
Toluene*	<0.050	0.050	12/04/2021	ND	2.06	103	2.00	0.585	
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.02	101	2.00	0.118	
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.12	102	6.00	0.00774	
Total BTEX	<0.300	0.300	12/04/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	48.0	16.0	12/04/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	218	109	200	0.574	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	208	104	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 99.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.2 % 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:

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

Received:	12/02/2021	Sampling Date:	12/01/2021
Reported:	12/06/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 3 (H213464-03)

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	12/04/2021	ND	2.09	105	2.00	0.401		
Toluene*	<0.050	0.050	12/04/2021	ND	2.05	102	2.00	1.42		
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.03	101	2.00	1.21		
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.18	103	6.00	0.706		
Total BTEX	<0.300	0.300	12/04/2021	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	12/04/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	218	109	200	0.574		
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	208	104	200	0.163		
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND						

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.5 % 38.9-142

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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:	12/02/2021	Sampling Date:	12/01/2021
Reported:	12/06/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 4 (H213464-04)

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	12/04/2021	ND	2.09	105	2.00	0.401	
Toluene*	<0.050	0.050	12/04/2021	ND	2.05	102	2.00	1.42	
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.03	101	2.00	1.21	
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.18	103	6.00	0.706	
Total BTEX	<0.300	0.300	12/04/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/04/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	218	109	200	0.574	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	208	104	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 99.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.1 % 38.9-142

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Analytical Results For:

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

Received:	12/02/2021	Sampling Date:	12/01/2021
Reported:	12/06/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 3 (H213464-05)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/04/2021	ND	2.09	105	2.00	0.401		
Toluene*	<0.050	0.050	12/04/2021	ND	2.05	102	2.00	1.42		
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.03	101	2.00	1.21		
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.18	103	6.00	0.706		
Total BTEX	<0.300	0.300	12/04/2021	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	12/04/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	218	109	200	0.574		
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	208	104	200	0.163		
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND						

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.9 % 38.9-142

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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:	12/02/2021	Sampling Date:	12/01/2021
Reported:	12/06/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 4 (H213464-06)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2021	ND	2.09	105	2.00	0.401	
Toluene*	<0.050	0.050	12/04/2021	ND	2.05	102	2.00	1.42	
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.03	101	2.00	1.21	
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.18	103	6.00	0.706	
Total BTEX	<0.300	0.300	12/04/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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	12/04/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	218	109	200	0.574	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	208	104	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 94.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

December 08, 2021

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZACH 17-8 W2MD FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 12/02/21 15:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 6 @ 3' (H213465-01)

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	12/07/2021	ND	2.09	105	2.00	0.401	
Toluene*	<0.050	0.050	12/07/2021	ND	2.05	102	2.00	1.42	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	2.03	101	2.00	1.21	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	6.18	103	6.00	0.706	
Total BTEX	<0.300	0.300	12/07/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/04/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	218	109	200	0.574	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	208	104	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 95.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.4 % 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:

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

Received:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 7 @ 3' (H213465-02)

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	12/04/2021	ND	2.09	105	2.00	0.401	
Toluene*	<0.050	0.050	12/04/2021	ND	2.05	102	2.00	1.42	
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.03	101	2.00	1.21	
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.18	103	6.00	0.706	
Total BTEX	<0.300	0.300	12/04/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	12/04/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	218	109	200	0.574	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	208	104	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 84.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.1 % 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:

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

Received:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 8 @ 3' (H213465-03)

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	12/04/2021	ND	2.09	105	2.00	0.401	
Toluene*	<0.050	0.050	12/04/2021	ND	2.05	102	2.00	1.42	
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.03	101	2.00	1.21	
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.18	103	6.00	0.706	
Total BTEX	<0.300	0.300	12/04/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 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	12/04/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	218	109	200	0.574	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	208	104	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 93.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.7 % 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:

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

Received:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 5 (H213465-04)

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	12/04/2021	ND	2.09	105	2.00	0.401	
Toluene*	<0.050	0.050	12/04/2021	ND	2.05	102	2.00	1.42	
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.03	101	2.00	1.21	
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.18	103	6.00	0.706	
Total BTEX	<0.300	0.300	12/04/2021	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	12/04/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	218	109	200	0.574	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	208	104	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 86.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.9 % 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:

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

Received:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 6 (H213465-05)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2021	ND	2.09	105	2.00	0.401	
Toluene*	<0.050	0.050	12/04/2021	ND	2.05	102	2.00	1.42	
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.03	101	2.00	1.21	
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.18	103	6.00	0.706	
Total BTEX	<0.300	0.300	12/04/2021	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	12/04/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	218	109	200	0.574	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	208	104	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 98.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.8 % 38.9-142

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Analytical Results For:

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

Received:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 7 (H213465-06)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2021	ND	2.09	105	2.00	0.401	
Toluene*	<0.050	0.050	12/04/2021	ND	2.05	102	2.00	1.42	
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.03	101	2.00	1.21	
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.18	103	6.00	0.706	
Total BTEX	<0.300	0.300	12/04/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	32.0	16.0	12/04/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	218	109	200	0.574	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	208	104	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 89.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.4 % 38.9-142

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Analytical Results For:

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

Received:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 5 (H213465-07)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2021	ND	2.09	105	2.00	0.401	
Toluene*	<0.050	0.050	12/04/2021	ND	2.05	102	2.00	1.42	
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.03	101	2.00	1.21	
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.18	103	6.00	0.706	
Total BTEX	<0.300	0.300	12/04/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 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	48.0	16.0	12/04/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	218	109	200	0.574	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	208	104	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 99.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.4 % 38.9-142

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Analytical Results For:

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

Received:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 6 (H213465-08)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2021	ND	2.09	105	2.00	0.401	
Toluene*	<0.050	0.050	12/04/2021	ND	2.05	102	2.00	1.42	
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.03	101	2.00	1.21	
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.18	103	6.00	0.706	
Total BTEX	<0.300	0.300	12/04/2021	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	12/04/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	218	109	200	0.574	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	208	104	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 99.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.6 % 38.9-142

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Analytical Results For:

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

Received:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 7 (H213465-09)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2021	ND	2.11	106	2.00	4.19	
Toluene*	<0.050	0.050	12/04/2021	ND	2.09	105	2.00	3.42	
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.05	103	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.26	104	6.00	4.39	
Total BTEX	<0.300	0.300	12/04/2021	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	<16.0	16.0	12/04/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	227	113	200	0.180	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	224	112	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-133

Surrogate: 1-Chlorooctadecane 110 % 38.9-142

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Analytical Results For:

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

Received:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 8 (H213465-10)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2021	ND	2.11	106	2.00	4.19	
Toluene*	<0.050	0.050	12/04/2021	ND	2.09	105	2.00	3.42	
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.05	103	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.26	104	6.00	4.39	
Total BTEX	<0.300	0.300	12/04/2021	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	12/04/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	227	113	200	0.180	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	224	112	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 98.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 101 % 38.9-142

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Analytical Results For:

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

Received:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 8 (H213465-11)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2021	ND	2.11	106	2.00	4.19	
Toluene*	<0.050	0.050	12/04/2021	ND	2.09	105	2.00	3.42	
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.05	103	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.26	104	6.00	4.39	
Total BTEX	<0.300	0.300	12/04/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	12/04/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	227	113	200	0.180	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	224	112	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 95.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.6 % 38.9-142

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Analytical Results For:

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

Received:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 9 (H213465-12)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2021	ND	2.11	106	2.00	4.19	
Toluene*	0.058	0.050	12/07/2021	ND	2.09	105	2.00	3.42	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	2.05	103	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	6.26	104	6.00	4.39	
Total BTEX	<0.300	0.300	12/07/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/04/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	227	113	200	0.180	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	224	112	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 98.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.5 % 38.9-142

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Analytical Results For:

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

Received:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 10 (H213465-13)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2021	ND	2.11	106	2.00	4.19	
Toluene*	<0.050	0.050	12/04/2021	ND	2.09	105	2.00	3.42	
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.05	103	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.26	104	6.00	4.39	
Total BTEX	<0.300	0.300	12/04/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	12/04/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	227	113	200	0.180	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	224	112	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 38.9-142

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Analytical Results For:

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

Received:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 11 (H213465-14)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2021	ND	2.11	106	2.00	4.19	
Toluene*	<0.050	0.050	12/04/2021	ND	2.09	105	2.00	3.42	
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.05	103	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.26	104	6.00	4.39	
Total BTEX	<0.300	0.300	12/04/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	<16.0	16.0	12/04/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	227	113	200	0.180	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	224	112	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 99.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.0 % 38.9-142

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Analytical Results For:

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

Received:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 12 (H213465-15)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2021	ND	2.11	106	2.00	4.19	
Toluene*	<0.050	0.050	12/04/2021	ND	2.09	105	2.00	3.42	
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.05	103	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.26	104	6.00	4.39	
Total BTEX	<0.300	0.300	12/04/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/04/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	227	113	200	0.180	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	224	112	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-133

Surrogate: 1-Chlorooctadecane 107 % 38.9-142

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Analytical Results For:

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

Received:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 13 (H213465-16)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/04/2021	ND	2.11	106	2.00	4.19		
Toluene*	<0.050	0.050	12/04/2021	ND	2.09	105	2.00	3.42		
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.05	103	2.00	3.77		
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.26	104	6.00	4.39		
Total BTEX	<0.300	0.300	12/04/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	12/04/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	227	113	200	0.180		
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	224	112	200	1.98		
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND						

Surrogate: 1-Chlorooctane 112 % 44.3-133

Surrogate: 1-Chlorooctadecane 112 % 38.9-142

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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:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 14 (H213465-17)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/04/2021	ND	2.11	106	2.00	4.19		
Toluene*	<0.050	0.050	12/04/2021	ND	2.09	105	2.00	3.42		
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.05	103	2.00	3.77		
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.26	104	6.00	4.39		
Total BTEX	<0.300	0.300	12/04/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 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	<16.0	16.0	12/04/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	227	113	200	0.180		
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	224	112	200	1.98		
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND						

Surrogate: 1-Chlorooctane 111 % 44.3-133

Surrogate: 1-Chlorooctadecane 110 % 38.9-142

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Analytical Results For:

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

Received:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 9 (H213465-18)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2021	ND	2.11	106	2.00	4.19	
Toluene*	<0.050	0.050	12/04/2021	ND	2.09	105	2.00	3.42	
Ethylbenzene*	<0.050	0.050	12/04/2021	ND	2.05	103	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/04/2021	ND	6.26	104	6.00	4.39	
Total BTEX	<0.300	0.300	12/04/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	64.0	16.0	12/04/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	227	113	200	0.180	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	224	112	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 101 % 38.9-142

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Analytical Results For:

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

Received:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 10 (H213465-19)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2021	ND	2.11	106	2.00	4.19	
Toluene*	<0.050	0.050	12/06/2021	ND	2.09	105	2.00	3.42	
Ethylbenzene*	<0.050	0.050	12/06/2021	ND	2.05	103	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/06/2021	ND	6.26	104	6.00	4.39	
Total BTEX	<0.300	0.300	12/06/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	12/04/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	227	113	200	0.180	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	224	112	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 101 % 38.9-142

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Analytical Results For:

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

Received:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 11 (H213465-20)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2021	ND	2.11	106	2.00	4.19	
Toluene*	<0.050	0.050	12/06/2021	ND	2.09	105	2.00	3.42	
Ethylbenzene*	<0.050	0.050	12/06/2021	ND	2.05	103	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/06/2021	ND	6.26	104	6.00	4.39	
Total BTEX	<0.300	0.300	12/06/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/04/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	227	113	200	0.180	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	224	112	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 96.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.4 % 38.9-142

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Analytical Results For:

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

Received:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 12 (H213465-21)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2021	ND	2.11	106	2.00	4.19	
Toluene*	<0.050	0.050	12/06/2021	ND	2.09	105	2.00	3.42	
Ethylbenzene*	<0.050	0.050	12/06/2021	ND	2.05	103	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/06/2021	ND	6.26	104	6.00	4.39	
Total BTEX	<0.300	0.300	12/06/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	12/04/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	227	113	200	0.180	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	224	112	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 102 % 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:

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

Received:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 13 (H213465-22)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2021	ND	2.11	106	2.00	4.19	
Toluene*	<0.050	0.050	12/06/2021	ND	2.09	105	2.00	3.42	
Ethylbenzene*	<0.050	0.050	12/06/2021	ND	2.05	103	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/06/2021	ND	6.26	104	6.00	4.39	
Total BTEX	<0.300	0.300	12/06/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	16.0	16.0	12/04/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	227	113	200	0.180	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	224	112	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-133

Surrogate: 1-Chlorooctadecane 104 % 38.9-142

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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:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 14 (H213465-23)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2021	ND	2.11	106	2.00	4.19	
Toluene*	<0.050	0.050	12/06/2021	ND	2.09	105	2.00	3.42	
Ethylbenzene*	<0.050	0.050	12/06/2021	ND	2.05	103	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/06/2021	ND	6.26	104	6.00	4.39	
Total BTEX	<0.300	0.300	12/06/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/04/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	227	113	200	0.180	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	224	112	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 99.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.2 % 38.9-142

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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:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 9 @ 3' (H213465-24)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2021	ND	2.11	106	2.00	4.19	
Toluene*	<0.050	0.050	12/06/2021	ND	2.09	105	2.00	3.42	
Ethylbenzene*	<0.050	0.050	12/06/2021	ND	2.05	103	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/06/2021	ND	6.26	104	6.00	4.39	
Total BTEX	<0.300	0.300	12/06/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	12/04/2021	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	12/04/2021	ND	227	113	200	0.180	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	224	112	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 96.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.6 % 38.9-142

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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:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 10 @ 3' (H213465-25)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2021	ND	2.11	106	2.00	4.19	
Toluene*	<0.050	0.050	12/06/2021	ND	2.09	105	2.00	3.42	
Ethylbenzene*	<0.050	0.050	12/06/2021	ND	2.05	103	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/06/2021	ND	6.26	104	6.00	4.39	
Total BTEX	<0.300	0.300	12/06/2021	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	160	16.0	12/04/2021	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	12/04/2021	ND	227	113	200	0.180	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	224	112	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 102 % 38.9-142

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Analytical Results For:

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

Received:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 11 @ 3' (H213465-26)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2021	ND	2.11	106	2.00	4.19	
Toluene*	<0.050	0.050	12/06/2021	ND	2.09	105	2.00	3.42	
Ethylbenzene*	<0.050	0.050	12/06/2021	ND	2.05	103	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/06/2021	ND	6.26	104	6.00	4.39	
Total BTEX	<0.300	0.300	12/06/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/04/2021	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	12/04/2021	ND	227	113	200	0.180	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	224	112	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-133

Surrogate: 1-Chlorooctadecane 105 % 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:

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

Received:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 12 @ 3' (H213465-27)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2021	ND	2.11	106	2.00	4.19	
Toluene*	<0.050	0.050	12/06/2021	ND	2.09	105	2.00	3.42	
Ethylbenzene*	<0.050	0.050	12/06/2021	ND	2.05	103	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/06/2021	ND	6.26	104	6.00	4.39	
Total BTEX	<0.300	0.300	12/06/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	80.0	16.0	12/04/2021	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	12/04/2021	ND	227	113	200	0.180	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	224	112	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 38.9-142

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Analytical Results For:

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

Received:	12/02/2021	Sampling Date:	12/02/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 13 @ 3' (H213465-28)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2021	ND	2.11	106	2.00	4.19	
Toluene*	<0.050	0.050	12/06/2021	ND	2.09	105	2.00	3.42	
Ethylbenzene*	<0.050	0.050	12/06/2021	ND	2.05	103	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/06/2021	ND	6.26	104	6.00	4.39	
Total BTEX	<0.300	0.300	12/06/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	160	16.0	12/04/2021	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	12/04/2021	ND	227	113	200	0.180	
DRO >C10-C28*	<10.0	10.0	12/04/2021	ND	224	112	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-133

Surrogate: 1-Chlorooctadecane 108 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Lanee Crenshaw Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 15048 Project Owner: Mewbourne Project Name: Zach 17-8 W/LMD Fed com 2H Project Location: Jal AM Sampler Name: Tyler Griffin		BILL TO P.O. #: Company: Mewbourne Attn: Robbie Runnels Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST									
--	--	--	--	-------------------------	--	--	--	--	--	--	--	--	--

FOR LAB USE ONLY		(GRAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING	DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE							
H213465															
1	FL6 @ 3'			X				X		12-2-21		X	X	X	
2	FL7 @ 3'			X				X		12-2-21		X	X	X	
3	FL8 @ 3'			X				X		12-2-21		X	X	X	
4	SW5			X				X		12-2-21		X	X	X	
5	SW6			X				X		12-2-21		X	X	X	
6	SW7			X				X		12-2-21		X	X	X	
7	NW5			X				X		12-2-21		X	X	X	
8	NW6			X				X		12-2-21		X	X	X	
9	NW7			X				X		12-2-21		X	X	X	
10	NW8			X				X		12-2-21		X	X	X	

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Relinquished By: Date: 12-2-21 Time: 1515	Received By: Date: Time:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS: Add'l Phone #: Add'l Fax #:
Delivered By: (Circle One) 5.4: <input checked="" type="radio"/> C-0.50 4.9: <input type="radio"/> #13 Sampler - UPS - Bus - Other:	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) TO

Please email copy of COC and results to pm@etechenv.com.



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

December 08, 2021

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZACH 17-8 W2MD FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 12/03/21 15:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 14 @ 3' (H213493-01)

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	12/07/2021	ND	1.61	80.7	2.00	11.7	
Toluene*	<0.050	0.050	12/07/2021	ND	1.55	77.6	2.00	13.4	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.53	76.5	2.00	14.1	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	4.70	78.3	6.00	13.4	
Total BTEX	<0.300	0.300	12/07/2021	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	12/07/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	221	110	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	219	110	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-133

Surrogate: 1-Chlorooctadecane 109 % 38.9-142

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 15 @ 3' (H213493-02)

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	12/07/2021	ND	1.61	80.7	2.00	11.7	
Toluene*	<0.050	0.050	12/07/2021	ND	1.55	77.6	2.00	13.4	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.53	76.5	2.00	14.1	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	4.70	78.3	6.00	13.4	
Total BTEX	<0.300	0.300	12/07/2021	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	12/07/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	221	110	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	219	110	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 38.9-142

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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:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 16 @ 3' (H213493-03)

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	12/07/2021	ND	1.61	80.7	2.00	11.7	
Toluene*	<0.050	0.050	12/07/2021	ND	1.55	77.6	2.00	13.4	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.53	76.5	2.00	14.1	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	4.70	78.3	6.00	13.4	
Total BTEX	<0.300	0.300	12/07/2021	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	112	16.0	12/07/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	221	110	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	219	110	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 99.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 102 % 38.9-142

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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:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 17 @ 3' (H213493-04)

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	12/07/2021	ND	1.61	80.7	2.00	11.7	
Toluene*	<0.050	0.050	12/07/2021	ND	1.55	77.6	2.00	13.4	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.53	76.5	2.00	14.1	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	4.70	78.3	6.00	13.4	
Total BTEX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	208	16.0	12/07/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	221	110	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	219	110	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 107 % 38.9-142

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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:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 18 @ 3' (H213493-05)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2021	ND	1.61	80.7	2.00	11.7	
Toluene*	<0.050	0.050	12/07/2021	ND	1.55	77.6	2.00	13.4	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.53	76.5	2.00	14.1	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	4.70	78.3	6.00	13.4	
Total BTEX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	96.0	16.0	12/07/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	221	110	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	219	110	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 104 % 38.9-142

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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:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 19 @ 3' (H213493-06)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2021	ND	1.61	80.7	2.00	11.7	
Toluene*	<0.050	0.050	12/07/2021	ND	1.55	77.6	2.00	13.4	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.53	76.5	2.00	14.1	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	4.70	78.3	6.00	13.4	
Total BTEX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 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	64.0	16.0	12/07/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	221	110	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	219	110	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-133

Surrogate: 1-Chlorooctadecane 107 % 38.9-142

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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:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 15 (H213493-07)

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	12/07/2021	ND	2.00	99.9	2.00	7.18	
Toluene*	<0.050	0.050	12/07/2021	ND	2.02	101	2.00	7.26	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.35	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	6.06	101	6.00	8.12	
Total BTEX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 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	32.0	16.0	12/07/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	221	110	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	219	110	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-133

Surrogate: 1-Chlorooctadecane 109 % 38.9-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 16 (H213493-08)

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	12/07/2021	ND	2.00	99.9	2.00	7.18	
Toluene*	<0.050	0.050	12/07/2021	ND	2.02	101	2.00	7.26	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.35	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	6.06	101	6.00	8.12	
Total BTEX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	64.0	16.0	12/07/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	221	110	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	219	110	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 78.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.6 % 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:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 17 (H213493-09)

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	12/07/2021	ND	2.00	99.9	2.00	7.18	
Toluene*	<0.050	0.050	12/07/2021	ND	2.02	101	2.00	7.26	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.35	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	6.06	101	6.00	8.12	
Total BTEX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	96.0	16.0	12/07/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	221	110	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	219	110	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 93.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.0 % 38.9-142

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Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 18 (H213493-10)

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	12/07/2021	ND	2.00	99.9	2.00	7.18	
Toluene*	<0.050	0.050	12/07/2021	ND	2.02	101	2.00	7.26	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.35	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	6.06	101	6.00	8.12	
Total BTEX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	12/07/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	221	110	200	1.47	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	219	110	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 105 % 38.9-142

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Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 19 (H213493-11)

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	12/07/2021	ND	2.00	99.9	2.00	7.18		
Toluene*	<0.050	0.050	12/07/2021	ND	2.02	101	2.00	7.26		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.35		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	6.06	101	6.00	8.12		
Total BTEX	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	12/07/2021	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	12/07/2021	ND	221	110	200	1.47		
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	219	110	200	5.37		
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND						

Surrogate: 1-Chlorooctane 94.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.7 % 38.9-142

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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:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 20 (H213493-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.18	
Toluene*	<0.050	0.050	12/07/2021	ND	2.02	101	2.00	7.26	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.35	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	6.06	101	6.00	8.12	
Total BTEX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	80.0	16.0	12/07/2021	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	12/07/2021	ND	217	108	200	1.37	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	200	99.9	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.3 % 38.9-142

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Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 21 (H213493-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.18	
Toluene*	<0.050	0.050	12/07/2021	ND	2.02	101	2.00	7.26	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.35	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	6.06	101	6.00	8.12	
Total BTEX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	64.0	16.0	12/07/2021	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	12/07/2021	ND	217	108	200	1.37	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	200	99.9	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 22 (H213493-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.18	
Toluene*	<0.050	0.050	12/07/2021	ND	2.02	101	2.00	7.26	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.35	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	6.06	101	6.00	8.12	
Total BTEX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	32.0	16.0	12/07/2021	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	12/07/2021	ND	217	108	200	1.37	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	200	99.9	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 95.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.9 % 38.9-142

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Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 15 (H213493-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.18	
Toluene*	<0.050	0.050	12/07/2021	ND	2.02	101	2.00	7.26	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.35	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	6.06	101	6.00	8.12	
Total BTEX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	12/07/2021	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	12/07/2021	ND	217	108	200	1.37	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	200	99.9	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 105 % 38.9-142

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Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 16 (H213493-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.18	
Toluene*	<0.050	0.050	12/07/2021	ND	2.02	101	2.00	7.26	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.35	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	6.06	101	6.00	8.12	
Total BTEX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	12/07/2021	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	12/07/2021	ND	217	108	200	1.37	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	200	99.9	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 99.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.0 % 38.9-142

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Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 17 (H213493-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.18	
Toluene*	<0.050	0.050	12/07/2021	ND	2.02	101	2.00	7.26	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.35	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	6.06	101	6.00	8.12	
Total BTEX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	12/07/2021	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	12/07/2021	ND	217	108	200	1.37	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	200	99.9	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 95.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.9 % 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:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 18 (H213493-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.18	
Toluene*	<0.050	0.050	12/07/2021	ND	2.02	101	2.00	7.26	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.35	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	6.06	101	6.00	8.12	
Total BTEX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	160	16.0	12/07/2021	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	12/07/2021	ND	217	108	200	1.37	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	200	99.9	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 88.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.0 % 38.9-142

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Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 19 (H213493-19)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.18		
Toluene*	<0.050	0.050	12/07/2021	ND	2.02	101	2.00	7.26		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.35		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	6.06	101	6.00	8.12		
Total BTEX	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	240	16.0	12/07/2021	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	12/07/2021	ND	217	108	200	1.37		
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	200	99.9	200	1.64		
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND						

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 38.9-142

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Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 20 (H213493-20)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.18	
Toluene*	<0.050	0.050	12/07/2021	ND	2.02	101	2.00	7.26	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.35	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	6.06	101	6.00	8.12	
Total BTEX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	12/07/2021	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	12/07/2021	ND	217	108	200	1.37	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	200	99.9	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 91.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.4 % 38.9-142

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Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 21 (H213493-21)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.18		
Toluene*	<0.050	0.050	12/07/2021	ND	2.02	101	2.00	7.26		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.35		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	6.06	101	6.00	8.12		
Total BTEX	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	32.0	16.0	12/07/2021	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	12/07/2021	ND	217	108	200	1.37		
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	200	99.9	200	1.64		
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND						

Surrogate: 1-Chlorooctane 97.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.0 % 38.9-142

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Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 22 (H213493-22)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.18	
Toluene*	<0.050	0.050	12/07/2021	ND	2.02	101	2.00	7.26	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.35	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	6.06	101	6.00	8.12	
Total BTEX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	<16.0	16.0	12/07/2021	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	12/07/2021	ND	217	108	200	1.37	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	200	99.9	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 93.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.1 % 38.9-142

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Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 23 (H213493-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.18	
Toluene*	<0.050	0.050	12/07/2021	ND	2.02	101	2.00	7.26	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.35	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	6.06	101	6.00	8.12	
Total BTEX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	16.0	16.0	12/07/2021	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	12/07/2021	ND	217	108	200	1.37	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	200	99.9	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 101 % 38.9-142

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Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 24 (H213493-24)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.18	
Toluene*	<0.050	0.050	12/07/2021	ND	2.02	101	2.00	7.26	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.35	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	6.06	101	6.00	8.12	
Total BTEX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	16.0	16.0	12/07/2021	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	12/07/2021	ND	217	108	200	1.37	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	200	99.9	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 99.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.2 % 38.9-142

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Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 23 (H213493-25)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.18	
Toluene*	<0.050	0.050	12/07/2021	ND	2.02	101	2.00	7.26	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.35	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	6.06	101	6.00	8.12	
Total BTEX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	<16.0	16.0	12/07/2021	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	12/07/2021	ND	217	108	200	1.37	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	200	99.9	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 97.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.7 % 38.9-142

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 24 (H213493-26)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.18	
Toluene*	<0.050	0.050	12/07/2021	ND	2.02	101	2.00	7.26	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	2.00	99.9	2.00	7.35	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	6.06	101	6.00	8.12	
Total BTEX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	12/07/2021	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	12/07/2021	ND	217	108	200	1.37	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	200	99.9	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 96.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.6 % 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:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W2MD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 20 @ 3' (H213493-27)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/08/2021	ND	2.00	100	2.00	10.3	
Toluene*	<0.050	0.050	12/08/2021	ND	1.98	99.0	2.00	8.00	
Ethylbenzene*	<0.050	0.050	12/08/2021	ND	1.96	98.1	2.00	8.64	
Total Xylenes*	<0.150	0.150	12/08/2021	ND	5.96	99.4	6.00	9.16	
Total BTEX	<0.300	0.300	12/08/2021	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	32.0	16.0	12/07/2021	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	12/07/2021	ND	217	108	200	1.37	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	200	99.9	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 98.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
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



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

December 10, 2021

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZACH 17-8 W1MD FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 12/08/21 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". The signature is written in a cursive style with a large, prominent 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/08/2021	Sampling Date:	12/08/2021
Reported:	12/10/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 1 (H213549-01)

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	12/10/2021	ND	1.88	94.0	2.00	7.08	
Toluene*	<0.050	0.050	12/10/2021	ND	1.84	91.9	2.00	6.52	
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.81	90.7	2.00	6.41	
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.57	92.8	6.00	5.93	
Total BTEX	<0.300	0.300	12/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/09/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	217	108	200	2.45	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	214	107	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 85.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.4 % 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:

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

Received:	12/08/2021	Sampling Date:	12/08/2021
Reported:	12/10/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 2 (H213549-02)

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	12/10/2021	ND	1.88	94.0	2.00	7.08	
Toluene*	<0.050	0.050	12/10/2021	ND	1.84	91.9	2.00	6.52	
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.81	90.7	2.00	6.41	
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.57	92.8	6.00	5.93	
Total BTEX	<0.300	0.300	12/10/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/09/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	217	108	200	2.45	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	214	107	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 90.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.9 % 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:

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

Received:	12/08/2021	Sampling Date:	12/08/2021
Reported:	12/10/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 1 (H213549-03)

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	12/10/2021	ND	1.88	94.0	2.00	7.08	
Toluene*	<0.050	0.050	12/10/2021	ND	1.84	91.9	2.00	6.52	
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.81	90.7	2.00	6.41	
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.57	92.8	6.00	5.93	
Total BTEX	<0.300	0.300	12/10/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/09/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	217	108	200	2.45	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	214	107	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 78.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.0 % 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:

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

Received:	12/08/2021	Sampling Date:	12/08/2021
Reported:	12/10/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 2 (H213549-04)

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	12/10/2021	ND	1.88	94.0	2.00	7.08	
Toluene*	<0.050	0.050	12/10/2021	ND	1.84	91.9	2.00	6.52	
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.81	90.7	2.00	6.41	
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.57	92.8	6.00	5.93	
Total BTEX	<0.300	0.300	12/10/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/09/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	217	108	200	2.45	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	214	107	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 82.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.4 % 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:

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

Received:	12/08/2021	Sampling Date:	12/08/2021
Reported:	12/10/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 1 @ 3' (H213549-05)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2021	ND	1.88	94.0	2.00	7.08	
Toluene*	<0.050	0.050	12/10/2021	ND	1.84	91.9	2.00	6.52	
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.81	90.7	2.00	6.41	
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.57	92.8	6.00	5.93	
Total BTEX	<0.300	0.300	12/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/09/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	217	108	200	2.45	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	214	107	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 85.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.5 % 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:

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

Received:	12/08/2021	Sampling Date:	12/08/2021
Reported:	12/10/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 2 @ 3' (H213549-06)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2021	ND	1.88	94.0	2.00	7.08	
Toluene*	<0.050	0.050	12/10/2021	ND	1.84	91.9	2.00	6.52	
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.81	90.7	2.00	6.41	
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.57	92.8	6.00	5.93	
Total BTEX	<0.300	0.300	12/10/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/09/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	217	108	200	2.45	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	214	107	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 80.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.0 % 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:

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

Received:	12/08/2021	Sampling Date:	12/08/2021
Reported:	12/10/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 3 @ 4' (H213549-07)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2021	ND	1.88	94.0	2.00	7.08	
Toluene*	<0.050	0.050	12/10/2021	ND	1.84	91.9	2.00	6.52	
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.81	90.7	2.00	6.41	
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.57	92.8	6.00	5.93	
Total BTEX	<0.300	0.300	12/10/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/09/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	217	108	200	2.45	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	214	107	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.4 % 38.9-142

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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

December 14, 2021

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZACH 17-8 W1MD FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 12/08/21 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:	12/08/2021	Sampling Date:	12/07/2021
Reported:	12/14/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: WW 1 (H213550-01)

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	12/10/2021	ND	1.88	94.0	2.00	7.08	
Toluene*	<0.050	0.050	12/10/2021	ND	1.84	91.9	2.00	6.52	
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.81	90.7	2.00	6.41	
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.57	92.8	6.00	5.93	
Total BTEX	<0.300	0.300	12/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	217	108	200	2.45	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	214	107	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 97.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.4 % 38.9-142

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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:	12/08/2021	Sampling Date:	12/07/2021
Reported:	12/14/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 21 @ 3' (H213550-02)

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	12/10/2021	ND	1.88	94.0	2.00	7.08	
Toluene*	<0.050	0.050	12/10/2021	ND	1.84	91.9	2.00	6.52	
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.81	90.7	2.00	6.41	
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.57	92.8	6.00	5.93	
Total BTEX	<0.300	0.300	12/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	181	90.7	200	3.78	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	204	102	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 81.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.3 % 38.9-142

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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:	12/08/2021	Sampling Date:	12/07/2021
Reported:	12/14/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 22 @ 3' (H213550-03)

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	12/10/2021	ND	2.01	100	2.00	1.87		
Toluene*	<0.050	0.050	12/10/2021	ND	1.98	99.1	2.00	0.397		
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.96	98.1	2.00	0.113		
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.94	99.0	6.00	1.12		
Total BTEX	<0.300	0.300	12/10/2021	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/10/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	181	90.7	200	3.78		
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	204	102	200	1.45		
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND						

Surrogate: 1-Chlorooctane 90.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.6 % 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:

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

Received:	12/08/2021	Sampling Date:	12/07/2021
Reported:	12/14/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 23 @ 3' (H213550-04)

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	12/10/2021	ND	2.01	100	2.00	1.87	
Toluene*	<0.050	0.050	12/10/2021	ND	1.98	99.1	2.00	0.397	
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.96	98.1	2.00	0.113	
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.94	99.0	6.00	1.12	
Total BTEX	<0.300	0.300	12/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 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	12/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	181	90.7	200	3.78	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	204	102	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 88.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.7 % 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:

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

Received:	12/08/2021	Sampling Date:	12/07/2021
Reported:	12/14/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 24 @ 3' (H213550-05)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2021	ND	2.01	100	2.00	1.87	
Toluene*	<0.050	0.050	12/10/2021	ND	1.98	99.1	2.00	0.397	
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.96	98.1	2.00	0.113	
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.94	99.0	6.00	1.12	
Total BTEX	<0.300	0.300	12/10/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	181	90.7	200	3.78	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	204	102	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 90.9 % 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:

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

Received:	12/08/2021	Sampling Date:	12/07/2021
Reported:	12/14/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 25 @ 3' (H213550-06)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2021	ND	2.01	100	2.00	1.87	
Toluene*	<0.050	0.050	12/10/2021	ND	1.98	99.1	2.00	0.397	
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.96	98.1	2.00	0.113	
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.94	99.0	6.00	1.12	
Total BTEX	<0.300	0.300	12/10/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	181	90.7	200	3.78	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	204	102	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 91.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.7 % 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:

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

Received:	12/08/2021	Sampling Date:	12/07/2021
Reported:	12/14/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 26 @ 3' (H213550-07)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2021	ND	2.01	100	2.00	1.87	
Toluene*	<0.050	0.050	12/10/2021	ND	1.98	99.1	2.00	0.397	
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.96	98.1	2.00	0.113	
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.94	99.0	6.00	1.12	
Total BTEX	<0.300	0.300	12/10/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	181	90.7	200	3.78	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	204	102	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 85.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.3 % 38.9-142

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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:	12/08/2021	Sampling Date:	12/07/2021
Reported:	12/14/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 25 (H213550-08)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2021	ND	2.01	100	2.00	1.87	
Toluene*	<0.050	0.050	12/10/2021	ND	1.98	99.1	2.00	0.397	
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.96	98.1	2.00	0.113	
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.94	99.0	6.00	1.12	
Total BTEX	<0.300	0.300	12/10/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	199	99.7	200	6.00	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	195	97.6	200	0.815	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.9 % 38.9-142

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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:	12/08/2021	Sampling Date:	12/07/2021
Reported:	12/14/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 26 (H213550-09)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2021	ND	2.01	100	2.00	1.87	
Toluene*	<0.050	0.050	12/10/2021	ND	1.98	99.1	2.00	0.397	
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.96	98.1	2.00	0.113	
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.94	99.0	6.00	1.12	
Total BTEX	<0.300	0.300	12/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	199	99.7	200	6.00	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	195	97.6	200	0.815	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 78.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.9 % 38.9-142

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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:	12/08/2021	Sampling Date:	12/07/2021
Reported:	12/14/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 27 (H213550-10)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2021	ND	2.01	100	2.00	1.87	
Toluene*	<0.050	0.050	12/10/2021	ND	1.98	99.1	2.00	0.397	
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.96	98.1	2.00	0.113	
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.94	99.0	6.00	1.12	
Total BTEX	<0.300	0.300	12/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	12/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	199	99.7	200	6.00	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	195	97.6	200	0.815	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 82.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.5 % 38.9-142

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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:	12/08/2021	Sampling Date:	12/07/2021
Reported:	12/14/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 28 (H213550-11)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2021	ND	2.01	100	2.00	1.87	
Toluene*	<0.050	0.050	12/10/2021	ND	1.98	99.1	2.00	0.397	
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.96	98.1	2.00	0.113	
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.94	99.0	6.00	1.12	
Total BTEX	<0.300	0.300	12/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	12/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	199	99.7	200	6.00	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	195	97.6	200	0.815	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 86.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.1 % 38.9-142

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

Analytical Results For:

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

Received:	12/08/2021	Sampling Date:	12/07/2021
Reported:	12/14/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 29 (H213550-12)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2021	ND	2.01	100	2.00	1.87	
Toluene*	<0.050	0.050	12/10/2021	ND	1.98	99.1	2.00	0.397	
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.96	98.1	2.00	0.113	
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.94	99.0	6.00	1.12	
Total BTEX	<0.300	0.300	12/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 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	12/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	199	99.7	200	6.00	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	195	97.6	200	0.815	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 78.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.9 % 38.9-142

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

Analytical Results For:

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

Received:	12/08/2021	Sampling Date:	12/07/2021
Reported:	12/14/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 30 (H213550-13)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2021	ND	2.01	100	2.00	1.87	
Toluene*	<0.050	0.050	12/10/2021	ND	1.98	99.1	2.00	0.397	
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.96	98.1	2.00	0.113	
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.94	99.0	6.00	1.12	
Total BTEX	<0.300	0.300	12/10/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	199	99.7	200	6.00	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	195	97.6	200	0.815	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 74.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 68.6 % 38.9-142

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Analytical Results For:

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

Received:	12/08/2021	Sampling Date:	12/07/2021
Reported:	12/14/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 31 (H213550-14)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2021	ND	2.01	100	2.00	1.87	
Toluene*	<0.050	0.050	12/10/2021	ND	1.98	99.1	2.00	0.397	
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.96	98.1	2.00	0.113	
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.94	99.0	6.00	1.12	
Total BTEX	<0.300	0.300	12/10/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	199	99.7	200	6.00	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	195	97.6	200	0.815	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 80.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.4 % 38.9-142

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Analytical Results For:

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

Received:	12/08/2021	Sampling Date:	12/07/2021
Reported:	12/14/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 32 (H213550-15)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2021	ND	2.01	100	2.00	1.87	
Toluene*	<0.050	0.050	12/10/2021	ND	1.98	99.1	2.00	0.397	
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.96	98.1	2.00	0.113	
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.94	99.0	6.00	1.12	
Total BTEX	<0.300	0.300	12/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	199	99.7	200	6.00	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	195	97.6	200	0.815	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 81.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.0 % 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:

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

Received:	12/08/2021	Sampling Date:	12/07/2021
Reported:	12/14/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 33 (H213550-16)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2021	ND	2.01	100	2.00	1.87	
Toluene*	<0.050	0.050	12/10/2021	ND	1.98	99.1	2.00	0.397	
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.96	98.1	2.00	0.113	
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.94	99.0	6.00	1.12	
Total BTEX	<0.300	0.300	12/10/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	199	99.7	200	6.00	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	195	97.6	200	0.815	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 80.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.7 % 38.9-142

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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:	12/08/2021	Sampling Date:	12/07/2021
Reported:	12/14/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 25 (H213550-17)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2021	ND	2.01	100	2.00	1.87	
Toluene*	<0.050	0.050	12/10/2021	ND	1.98	99.1	2.00	0.397	
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.96	98.1	2.00	0.113	
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.94	99.0	6.00	1.12	
Total BTEX	<0.300	0.300	12/10/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	199	99.7	200	6.00	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	195	97.6	200	0.815	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 75.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.4 % 38.9-142

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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:	12/08/2021	Sampling Date:	12/07/2021
Reported:	12/14/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 26 (H213550-18)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2021	ND	2.01	100	2.00	1.87	
Toluene*	<0.050	0.050	12/10/2021	ND	1.98	99.1	2.00	0.397	
Ethylbenzene*	<0.050	0.050	12/10/2021	ND	1.96	98.1	2.00	0.113	
Total Xylenes*	<0.150	0.150	12/10/2021	ND	5.94	99.0	6.00	1.12	
Total BTEX	<0.300	0.300	12/10/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	199	99.7	200	6.00	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	195	97.6	200	0.815	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 77.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.1 % 38.9-142

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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:	12/08/2021	Sampling Date:	12/07/2021
Reported:	12/14/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 27 (H213550-19)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	2.01	101	2.00	3.43	
Toluene*	<0.050	0.050	12/13/2021	ND	1.92	95.8	2.00	2.93	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.91	95.6	2.00	3.38	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.93	98.8	6.00	3.72	
Total BTEX	<0.300	0.300	12/13/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	199	99.7	200	6.00	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	195	97.6	200	0.815	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 76.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.2 % 38.9-142

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Analytical Results For:

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

Received:	12/08/2021	Sampling Date:	12/07/2021
Reported:	12/14/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 28 (H213550-20)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	2.01	101	2.00	3.43	
Toluene*	<0.050	0.050	12/13/2021	ND	1.92	95.8	2.00	2.93	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.91	95.6	2.00	3.38	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.93	98.8	6.00	3.72	
Total BTEX	<0.300	0.300	12/13/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	199	99.7	200	6.00	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	195	97.6	200	0.815	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 77.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.2 % 38.9-142

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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:	12/08/2021	Sampling Date:	12/07/2021
Reported:	12/14/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 29 (H213550-21)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	2.01	101	2.00	3.43	
Toluene*	<0.050	0.050	12/13/2021	ND	1.92	95.8	2.00	2.93	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.91	95.6	2.00	3.38	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.93	98.8	6.00	3.72	
Total BTEX	<0.300	0.300	12/13/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/10/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	199	99.7	200	6.00	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	195	97.6	200	0.815	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 74.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 68.0 % 38.9-142

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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:	12/08/2021	Sampling Date:	12/07/2021
Reported:	12/14/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 30 (H213550-22)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	2.01	101	2.00	3.43	
Toluene*	<0.050	0.050	12/13/2021	ND	1.92	95.8	2.00	2.93	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.91	95.6	2.00	3.38	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.93	98.8	6.00	3.72	
Total BTEX	<0.300	0.300	12/13/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	12/10/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	199	99.7	200	6.00	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	195	97.6	200	0.815	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 55.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 51.6 % 38.9-142

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

Analytical Results For:

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

Received:	12/08/2021	Sampling Date:	12/07/2021
Reported:	12/14/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 31 (H213550-23)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	2.01	101	2.00	3.43	
Toluene*	<0.050	0.050	12/13/2021	ND	1.92	95.8	2.00	2.93	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.91	95.6	2.00	3.38	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.93	98.8	6.00	3.72	
Total BTEX	<0.300	0.300	12/13/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/10/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	199	99.7	200	6.00	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	195	97.6	200	0.815	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 81.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.7 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/08/2021	Sampling Date:	12/07/2021
Reported:	12/14/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 32 (H213550-24)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	2.01	101	2.00	3.43	
Toluene*	<0.050	0.050	12/13/2021	ND	1.92	95.8	2.00	2.93	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.91	95.6	2.00	3.38	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.93	98.8	6.00	3.72	
Total BTEX	<0.300	0.300	12/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/10/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	199	99.7	200	6.00	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	195	97.6	200	0.815	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 81.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.6 % 38.9-142

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/08/2021	Sampling Date:	12/07/2021
Reported:	12/14/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 33 (H213550-25)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	2.01	101	2.00	3.43	
Toluene*	<0.050	0.050	12/13/2021	ND	1.92	95.8	2.00	2.93	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.91	95.6	2.00	3.38	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.93	98.8	6.00	3.72	
Total BTEX	<0.300	0.300	12/13/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/10/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	199	99.7	200	6.00	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	195	97.6	200	0.815	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane 73.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.4 % 38.9-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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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*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																				
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																				
Address: 2617 West Marland				Company: Newbournne																								
City: Hobbs State: NM Zip: 88240				Attn: Robbie Runnels																								
Phone #: (575) 264-9884 Fax #:				Address:																								
Project #: 15048 Project Owner: Newbournne				City:																								
Project Name: Zach 17-8 Red WMD Fuel Com 1H				State: Zip:																								
Project Location: Jal, NM				Phone #:																								
Sampler Name: Tyler Griffin				Fax #:																								
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
	H213550						X							12-7-21		X	X	X										
	11	NW 28					X							12-7-21		X	X	X										
	12	NW 29					X							12-7-21		X	X	X										
	13	NW 30					X							12-7-21		X	X	X										
	14	NW 31					X							12-7-21		X	X	X										
	15	NW 32					X							12-7-21		X	X	X										
	16	NW 33					X							12-7-21		X	X	X										
	17	SW 25					X							12-7-21		X	X	X										
	18	SW 26					X							12-7-21		X	X	X										
	19	SW 27					X							12-7-21		X	X	X										
	20	SW 28					X							12-7-21		X	X	X										
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																												
Relinquished By: <i>[Signature]</i>				Date: 12-8-21				Received By: <i>[Signature]</i>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:												
				Time: 1450								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:												
Relinquished By:				Date:				Received By:				REMARKS:																
				Time:																								
Delivered By: (Circle One)				-4.7°C -0.5°C				Sample Condition				CHECKED BY:																
Sampler - UPS - Bus - Other:				-5.2°C #113				Cool Intact				(Initials)																
								<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				T.O.																



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.		BILL TO				ANALYSIS REQUEST																					
Project Manager: Lance Crenshaw		P.O. #:				Chloride TPH (8015M) BTEX (8021B)																					
Address: 2617 West Marland		Company: Mewbourne																									
City: Hobbs State: NM Zip: 88240		Attn: Robbie Runnels																									
Phone #: (575) 264-9884 Fax #:		Address:																									
Project #: 15048 Project Owner: Mewbourne		City:																									
Project Name: Zach 17-8 WJMD Fed com 1H		State: Zip:																									
Project Location: Jach, NM		Phone #:																									
Sampler Name: Tyler Griffin		Fax #:																									
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
H213550																											
21	SW 29					X							12-7-21		X	X	X										
22	SW 30					X							12-7-21		X	X	X										
23	SW 31					X							12-7-21		X	X	X										
24	SW 32					X							12-7-21		X	X	X										
25	SW 33					X							12-7-21		X	X	X										
<p>PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																											
Relinquished By: <i>[Signature]</i>		Date: 12-8-21		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																			
Time: 1450						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																			
Relinquished By:		Date:		Received By:		REMARKS:																					
Time:																											
Delivered By: (Circle One) -4.7°C C-0.5°C		Sample Condition		CHECKED BY: (Initials)																							
Sampler - UPS - Bus - Other: -5.2°C #113		Cool Intact		Y.O.																							
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																									
		<input type="checkbox"/> No <input type="checkbox"/> No																									



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

December 15, 2021

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZACH 17-8 W1MD FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 12/10/21 14:55.

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, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/10/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 34 (H213578-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2021	ND	1.57	78.3	2.00	18.7	
Toluene*	<0.050	0.050	12/14/2021	ND	1.70	85.2	2.00	16.5	
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.75	87.7	2.00	15.1	
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.96	99.4	6.00	14.7	
Total BTEX	<0.300	0.300	12/14/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	213	107	200	2.04	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	214	107	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-133

Surrogate: 1-Chlorooctadecane 111 % 38.9-142

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/10/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 35 (H213578-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2021	ND	1.57	78.3	2.00	18.7	
Toluene*	<0.050	0.050	12/14/2021	ND	1.70	85.2	2.00	16.5	
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.75	87.7	2.00	15.1	
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.96	99.4	6.00	14.7	
Total BTEX	<0.300	0.300	12/14/2021	ND					

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

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	213	107	200	2.04	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	214	107	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 118 % 44.3-133

Surrogate: 1-Chlorooctadecane 124 % 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:

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

Received:	12/10/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 36 (H213578-03)

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	12/13/2021	ND	1.69	84.5	2.00	16.8	
Toluene*	<0.050	0.050	12/13/2021	ND	1.70	85.0	2.00	13.3	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.76	88.1	2.00	11.6	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.51	91.8	6.00	11.0	
Total BTEX	<0.300	0.300	12/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	213	107	200	2.04	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	214	107	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 115 % 44.3-133

Surrogate: 1-Chlorooctadecane 119 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/10/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 37 (H213578-04)

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	12/13/2021	ND	1.69	84.5	2.00	16.8	
Toluene*	<0.050	0.050	12/13/2021	ND	1.70	85.0	2.00	13.3	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.76	88.1	2.00	11.6	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.51	91.8	6.00	11.0	
Total BTEX	<0.300	0.300	12/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	213	107	200	2.04	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	214	107	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 120 % 44.3-133

Surrogate: 1-Chlorooctadecane 124 % 38.9-142

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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:	12/10/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 38 (H213578-05)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	1.69	84.5	2.00	16.8	
Toluene*	<0.050	0.050	12/13/2021	ND	1.70	85.0	2.00	13.3	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.76	88.1	2.00	11.6	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.51	91.8	6.00	11.0	
Total BTEX	<0.300	0.300	12/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 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	192	16.0	12/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	213	107	200	2.04	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	214	107	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 122 % 44.3-133

Surrogate: 1-Chlorooctadecane 130 % 38.9-142

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Analytical Results For:

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

Received:	12/10/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 39 (H213578-06)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2021	ND	1.69	84.5	2.00	16.8		
Toluene*	<0.050	0.050	12/13/2021	ND	1.70	85.0	2.00	13.3		
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.76	88.1	2.00	11.6		
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.51	91.8	6.00	11.0		
Total BTEX	<0.300	0.300	12/13/2021	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/14/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	213	107	200	2.04		
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	214	107	200	2.49		
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND						

Surrogate: 1-Chlorooctane 116 % 44.3-133

Surrogate: 1-Chlorooctadecane 120 % 38.9-142

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Analytical Results For:

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

Received:	12/10/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 42 (H213578-07)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	1.69	84.5	2.00	16.8	
Toluene*	<0.050	0.050	12/13/2021	ND	1.70	85.0	2.00	13.3	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.76	88.1	2.00	11.6	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.51	91.8	6.00	11.0	
Total BTEX	<0.300	0.300	12/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2021	ND	211	105	200	1.50	
DRO >C10-C28*	<10.0	10.0	12/13/2021	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	12/13/2021	ND					

Surrogate: 1-Chlorooctane 99.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.8 % 38.9-142

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/10/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 43 (H213578-08)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	1.69	84.5	2.00	16.8	
Toluene*	<0.050	0.050	12/13/2021	ND	1.70	85.0	2.00	13.3	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.76	88.1	2.00	11.6	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.51	91.8	6.00	11.0	
Total BTEX	<0.300	0.300	12/13/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2021	ND	211	105	200	1.50	
DRO >C10-C28*	<10.0	10.0	12/13/2021	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	12/13/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 101 % 38.9-142

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/10/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 34 (H213578-09)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	1.69	84.5	2.00	16.8	
Toluene*	<0.050	0.050	12/13/2021	ND	1.70	85.0	2.00	13.3	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.76	88.1	2.00	11.6	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.51	91.8	6.00	11.0	
Total BTEX	<0.300	0.300	12/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 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	32.0	16.0	12/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2021	ND	211	105	200	1.50	
DRO >C10-C28*	<10.0	10.0	12/13/2021	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	12/13/2021	ND					

Surrogate: 1-Chlorooctane 99.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.5 % 38.9-142

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/10/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 35 (H213578-10)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	1.69	84.5	2.00	16.8	
Toluene*	<0.050	0.050	12/13/2021	ND	1.70	85.0	2.00	13.3	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.76	88.1	2.00	11.6	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.51	91.8	6.00	11.0	
Total BTEX	<0.300	0.300	12/13/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	211	105	200	1.50	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 38.9-142

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Analytical Results For:

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

Received:	12/10/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 36 (H213578-11)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	1.69	84.5	2.00	16.8	
Toluene*	<0.050	0.050	12/13/2021	ND	1.70	85.0	2.00	13.3	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.76	88.1	2.00	11.6	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.51	91.8	6.00	11.0	
Total BTEX	<0.300	0.300	12/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 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	32.0	16.0	12/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	211	105	200	1.50	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 99.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.9 % 38.9-142

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Analytical Results For:

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

Received:	12/10/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 37 (H213578-12)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	1.69	84.5	2.00	16.8	
Toluene*	<0.050	0.050	12/13/2021	ND	1.70	85.0	2.00	13.3	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.76	88.1	2.00	11.6	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.51	91.8	6.00	11.0	
Total BTEX	<0.300	0.300	12/13/2021	ND					

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

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	211	105	200	1.50	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 97.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.4 % 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:

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

Received:	12/10/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 38 (H213578-13)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	1.69	84.5	2.00	16.8	
Toluene*	<0.050	0.050	12/13/2021	ND	1.70	85.0	2.00	13.3	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.76	88.1	2.00	11.6	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.51	91.8	6.00	11.0	
Total BTEX	<0.300	0.300	12/13/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	211	105	200	1.50	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-133

Surrogate: 1-Chlorooctadecane 105 % 38.9-142

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Analytical Results For:

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

Received:	12/10/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 39 (H213578-14)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	1.69	84.5	2.00	16.8	
Toluene*	<0.050	0.050	12/13/2021	ND	1.70	85.0	2.00	13.3	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.76	88.1	2.00	11.6	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.51	91.8	6.00	11.0	
Total BTEX	<0.300	0.300	12/13/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	211	105	200	1.50	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-133

Surrogate: 1-Chlorooctadecane 108 % 38.9-142

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Analytical Results For:

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

Received:	12/10/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 27 @ 4' (H213578-15)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	1.69	84.5	2.00	16.8	
Toluene*	<0.050	0.050	12/13/2021	ND	1.70	85.0	2.00	13.3	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.76	88.1	2.00	11.6	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.51	91.8	6.00	11.0	
Total BTEX	<0.300	0.300	12/13/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	211	105	200	1.50	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 112 % 44.3-133

Surrogate: 1-Chlorooctadecane 109 % 38.9-142

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Analytical Results For:

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

Received:	12/10/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 28 @ 3' (H213578-16)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	1.69	84.5	2.00	16.8	
Toluene*	<0.050	0.050	12/13/2021	ND	1.70	85.0	2.00	13.3	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.76	88.1	2.00	11.6	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.51	91.8	6.00	11.0	
Total BTEX	<0.300	0.300	12/13/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	211	105	200	1.50	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 38.9-142

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Analytical Results For:

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

Received:	12/10/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 29 @ 3' (H213578-17)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	1.69	84.5	2.00	16.8	
Toluene*	<0.050	0.050	12/13/2021	ND	1.70	85.0	2.00	13.3	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.76	88.1	2.00	11.6	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.51	91.8	6.00	11.0	
Total BTEX	<0.300	0.300	12/13/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	211	105	200	1.50	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 108 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 38.9-142

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Analytical Results For:

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

Received:	12/10/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 30 @ 4' (H213578-18)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	1.69	84.5	2.00	16.8	
Toluene*	<0.050	0.050	12/13/2021	ND	1.70	85.0	2.00	13.3	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.76	88.1	2.00	11.6	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.51	91.8	6.00	11.0	
Total BTEX	<0.300	0.300	12/13/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	211	105	200	1.50	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 114 % 44.3-133

Surrogate: 1-Chlorooctadecane 109 % 38.9-142

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Analytical Results For:

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

Received:	12/10/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 31 @ 3' (H213578-19)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	1.69	84.5	2.00	16.8	
Toluene*	<0.050	0.050	12/13/2021	ND	1.70	85.0	2.00	13.3	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.76	88.1	2.00	11.6	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.51	91.8	6.00	11.0	
Total BTEX	<0.300	0.300	12/13/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	12/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	211	105	200	1.50	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-133

Surrogate: 1-Chlorooctadecane 107 % 38.9-142

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Analytical Results For:

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

Received:	12/10/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 32 @ 3' (H213578-20)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	1.69	84.5	2.00	16.8	
Toluene*	<0.050	0.050	12/13/2021	ND	1.70	85.0	2.00	13.3	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.76	88.1	2.00	11.6	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.51	91.8	6.00	11.0	
Total BTEX	<0.300	0.300	12/13/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	211	105	200	1.50	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 99.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.2 % 38.9-142

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Analytical Results For:

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

Received:	12/10/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 36 @ 3' (H213578-21)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	1.69	84.5	2.00	16.8	
Toluene*	<0.050	0.050	12/13/2021	ND	1.70	85.0	2.00	13.3	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.76	88.1	2.00	11.6	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.51	91.8	6.00	11.0	
Total BTEX	<0.300	0.300	12/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 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	12/14/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	211	105	200	1.50	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 92.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.5 % 38.9-142

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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:	12/10/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 38 @ 3' (H213578-22)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2021	ND	1.69	84.5	2.00	16.8	
Toluene*	<0.050	0.050	12/13/2021	ND	1.70	85.0	2.00	13.3	
Ethylbenzene*	<0.050	0.050	12/13/2021	ND	1.76	88.1	2.00	11.6	
Total Xylenes*	<0.150	0.150	12/13/2021	ND	5.51	91.8	6.00	11.0	
Total BTEX	<0.300	0.300	12/13/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/14/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	211	105	200	1.50	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 96.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.2 % 38.9-142

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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04 The RPD for the BS/BSD was outside of historical limits.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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December 15, 2021

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZACH 17-8 W1MD FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 12/10/21 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 "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/10/2021	Sampling Date:	12/10/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 43 (H213585-01)

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	12/14/2021	ND	1.73	86.6	2.00	17.0	
Toluene*	<0.050	0.050	12/14/2021	ND	1.77	88.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.79	89.6	2.00	11.9	
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.52	92.0	6.00	10.1	
Total BTEX	<0.300	0.300	12/14/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/14/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	211	105	200	1.50	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 95.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.8 % 38.9-142

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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:	12/10/2021	Sampling Date:	12/10/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 44 (H213585-02)

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	12/14/2021	ND	1.73	86.6	2.00	17.0	
Toluene*	<0.050	0.050	12/14/2021	ND	1.77	88.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.79	89.6	2.00	11.9	
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.52	92.0	6.00	10.1	
Total BTEX	<0.300	0.300	12/14/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/14/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	211	105	200	1.50	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-133

Surrogate: 1-Chlorooctadecane 105 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/10/2021	Sampling Date:	12/10/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 45 (H213585-03)

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	12/14/2021	ND	1.73	86.6	2.00	17.0	
Toluene*	<0.050	0.050	12/14/2021	ND	1.77	88.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.79	89.6	2.00	11.9	
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.52	92.0	6.00	10.1	
Total BTEX	<0.300	0.300	12/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/14/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	211	105	200	1.50	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 101 % 38.9-142

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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:	12/10/2021	Sampling Date:	12/10/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 46 (H213585-04)

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	12/14/2021	ND	1.73	86.6	2.00	17.0	
Toluene*	<0.050	0.050	12/14/2021	ND	1.77	88.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.79	89.6	2.00	11.9	
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.52	92.0	6.00	10.1	
Total BTEX	<0.300	0.300	12/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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	12/14/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	196	98.0	200	0.807	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	194	97.1	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 86.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.3 % 38.9-142

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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:	12/10/2021	Sampling Date:	12/10/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 47 (H213585-05)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2021	ND	1.73	86.6	2.00	17.0	
Toluene*	<0.050	0.050	12/14/2021	ND	1.77	88.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.79	89.6	2.00	11.9	
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.52	92.0	6.00	10.1	
Total BTEX	<0.300	0.300	12/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	80.0	16.0	12/14/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	196	98.0	200	0.807	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	194	97.1	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 95.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.9 % 38.9-142

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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:	12/10/2021	Sampling Date:	12/10/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 48 (H213585-06)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2021	ND	1.73	86.6	2.00	17.0	
Toluene*	<0.050	0.050	12/14/2021	ND	1.77	88.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.79	89.6	2.00	11.9	
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.52	92.0	6.00	10.1	
Total BTEX	<0.300	0.300	12/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 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	96.0	16.0	12/14/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	196	98.0	200	0.807	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	194	97.1	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 81.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.5 % 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:

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

Received:	12/10/2021	Sampling Date:	12/10/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 44 (H213585-07)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.73	86.6	2.00	17.0		
Toluene*	<0.050	0.050	12/14/2021	ND	1.77	88.3	2.00	14.2		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.79	89.6	2.00	11.9		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.52	92.0	6.00	10.1		
Total BTEX	<0.300	0.300	12/14/2021	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/14/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	196	98.0	200	0.807		
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	194	97.1	200	4.18		
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND						

Surrogate: 1-Chlorooctane 83.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.7 % 38.9-142

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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:	12/10/2021	Sampling Date:	12/10/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 45 (H213585-08)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2021	ND	1.73	86.6	2.00	17.0	
Toluene*	<0.050	0.050	12/14/2021	ND	1.77	88.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.79	89.6	2.00	11.9	
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.52	92.0	6.00	10.1	
Total BTEX	<0.300	0.300	12/14/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/14/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	196	98.0	200	0.807	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	194	97.1	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 90.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.7 % 38.9-142

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Analytical Results For:

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

Received:	12/10/2021	Sampling Date:	12/10/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 46 (H213585-09)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2021	ND	1.73	86.6	2.00	17.0	
Toluene*	<0.050	0.050	12/14/2021	ND	1.77	88.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.79	89.6	2.00	11.9	
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.52	92.0	6.00	10.1	
Total BTEX	<0.300	0.300	12/14/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/14/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	196	98.0	200	0.807	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	194	97.1	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 93.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.4 % 38.9-142

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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:	12/10/2021	Sampling Date:	12/10/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 47 (H213585-10)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2021	ND	1.73	86.6	2.00	17.0	
Toluene*	<0.050	0.050	12/14/2021	ND	1.77	88.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.79	89.6	2.00	11.9	
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.52	92.0	6.00	10.1	
Total BTEX	<0.300	0.300	12/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/14/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	196	98.0	200	0.807	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	194	97.1	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 87.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.4 % 38.9-142

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Analytical Results For:

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

Received:	12/10/2021	Sampling Date:	12/10/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 48 (H213585-11)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2021	ND	1.73	86.6	2.00	17.0	
Toluene*	<0.050	0.050	12/14/2021	ND	1.77	88.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.79	89.6	2.00	11.9	
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.52	92.0	6.00	10.1	
Total BTEX	<0.300	0.300	12/14/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/14/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	196	98.0	200	0.807	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	194	97.1	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 89.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.5 % 38.9-142

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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:	12/10/2021	Sampling Date:	12/10/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 39 @ 3' (H213585-12)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2021	ND	1.73	86.6	2.00	17.0	
Toluene*	<0.050	0.050	12/14/2021	ND	1.77	88.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.79	89.6	2.00	11.9	
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.52	92.0	6.00	10.1	
Total BTEX	<0.300	0.300	12/14/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/14/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	196	98.0	200	0.807	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	194	97.1	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 88.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.4 % 38.9-142

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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:	12/10/2021	Sampling Date:	12/10/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 40 @ 3' (H213585-13)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2021	ND	1.73	86.6	2.00	17.0	
Toluene*	<0.050	0.050	12/14/2021	ND	1.77	88.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.79	89.6	2.00	11.9	
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.52	92.0	6.00	10.1	
Total BTEX	<0.300	0.300	12/14/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/14/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	196	98.0	200	0.807	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	194	97.1	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.7 % 38.9-142

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Analytical Results For:

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

Received:	12/10/2021	Sampling Date:	12/10/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 41 @ 3' (H213585-14)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2021	ND	1.73	86.6	2.00	17.0	
Toluene*	<0.050	0.050	12/14/2021	ND	1.77	88.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.79	89.6	2.00	11.9	
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.52	92.0	6.00	10.1	
Total BTEX	<0.300	0.300	12/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/14/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	196	98.0	200	0.807	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	194	97.1	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 96.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.4 % 38.9-142

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Analytical Results For:

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

Received:	12/10/2021	Sampling Date:	12/10/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 42 @ 3' (H213585-15)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2021	ND	1.73	86.6	2.00	17.0	
Toluene*	<0.050	0.050	12/14/2021	ND	1.77	88.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.79	89.6	2.00	11.9	
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.52	92.0	6.00	10.1	
Total BTEX	<0.300	0.300	12/14/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/14/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2021	ND	196	98.0	200	0.807	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	194	97.1	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 83.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
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



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Lance Crenshaw Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 15048 Project Owner: Mewbourne Project Name: Zach 17-8 W1MD Fed COM1H Project Location: Jal, NM Sampler Name: Tyler Griffin				BILL TO P.O. #: Company: Mewbourne Attn: Robbie Runnels Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST													
FOR LAB USE ONLY		Lab I.D. H213585	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	PRESERV. ACID/BASE: ICE / COOL OTHER:	SAMPLING DATE TIME	Chloride	TPH (8015M)	BTEX (8021B)											
1	NW43				X	X	12-10	X	X	X											
2	NW44				X	X	12-10	X	X	X											
3	NW45				X	X	12-10	X	X	X											
4	NW46				X	X	12-10	X	X	X											
5	NW47				X	X	12-10	X	X	X											
6	NW48				X	X	12-10	X	X	X											
7	SW44				X	X	12-10	X	X	X											
8	SW45				X	X	12-10	X	X	X											
9	SW46				X	X	12-10	X	X	X											
10	SW47				X	X	12-10	X	X	X											

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Relinquished By: Date: 12-10-21 Time: 1630	Received By: Date: Time:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS: Please email copy of COC and results to pm@etechenv.com.
Delivered By: (Circle One) 5.1e C-0.5e Sampler - UPS - Bus - Other: 4.6e #113	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) T.O.



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Lance Crenshaw Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 15048 Project Owner: Mewbourne Project Name: Zach 17-8 WIND Fed com 1H Project Location: Jal, Nm Sampler Name: Tyler Griffin				BILL TO P.O. #: Company: Mewbourne Attn: Robbie Runnels Address: City: State: Zip: Phone #: Fax #:			ANALYSIS REQUEST														
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	Chloride	TPH (8015M)	BTEX (8021B)											
					GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER:	DATE	TIME													
	H213585																				
	11	SW 48			X	X	12-10		X	X	X										
	12	FL 39 @ 3'			X	X	12-10		X	X	X										
	13	FL 40 @ 3'			X	X	12-10		X	X	X										
	14	FL 41 @ 3'			X	X	12-10		X	X	X										
	15	FL 42 @ 3'			X	X	12-10		X	X	X										

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Relinquished By: Date: 12-10-21 Time: 1630	Received By: Date: Time:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS: Please email copy of COC and results to pm@etechenv.com.
Delivered By: (Circle One) 5.10 C-0.50 Sampler - UPS - Bus - Other: 4.60 #113	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials)



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

December 21, 2021

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZACH 17-8 W1MD FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 12/16/21 16:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/16/2021	Sampling Date:	12/16/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	15048	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 53 (H213647-01)

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	12/17/2021	ND	1.96	97.9	2.00	8.67		
Toluene*	<0.050	0.050	12/17/2021	ND	1.94	97.0	2.00	8.65		
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	1.95	97.5	2.00	9.69		
Total Xylenes*	<0.150	0.150	12/17/2021	ND	5.99	99.9	6.00	9.12		
Total BTEX	<0.300	0.300	12/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 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	12/17/2021	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	12/18/2021	ND	191	95.5	200	3.20		
DRO >C10-C28*	<10.0	10.0	12/18/2021	ND	189	94.7	200	1.07		
EXT DRO >C28-C36	<10.0	10.0	12/18/2021	ND						

Surrogate: 1-Chlorooctane 62.0 % 62-130

Surrogate: 1-Chlorooctadecane 55.6 % 54.5-135

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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:	12/16/2021	Sampling Date:	12/16/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	15048	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 54 (H213647-02)

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	12/17/2021	ND	1.96	97.9	2.00	8.67	
Toluene*	<0.050	0.050	12/17/2021	ND	1.94	97.0	2.00	8.65	
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	1.95	97.5	2.00	9.69	
Total Xylenes*	<0.150	0.150	12/17/2021	ND	5.99	99.9	6.00	9.12	
Total BTEX	<0.300	0.300	12/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	64.0	16.0	12/17/2021	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	12/18/2021	ND	191	95.5	200	3.20	
DRO >C10-C28*	<10.0	10.0	12/18/2021	ND	189	94.7	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	12/18/2021	ND					

Surrogate: 1-Chlorooctane 67.6 % 62-130

Surrogate: 1-Chlorooctadecane 61.0 % 54.5-135

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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:	12/16/2021	Sampling Date:	12/16/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	15048	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 53 (H213647-03)

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	12/17/2021	ND	1.96	97.9	2.00	8.67	
Toluene*	<0.050	0.050	12/17/2021	ND	1.94	97.0	2.00	8.65	
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	1.95	97.5	2.00	9.69	
Total Xylenes*	<0.150	0.150	12/17/2021	ND	5.99	99.9	6.00	9.12	
Total BTEX	<0.300	0.300	12/17/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/17/2021	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	12/20/2021	ND	212	106	200	0.171	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	194	96.9	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 83.1 % 62-130

Surrogate: 1-Chlorooctadecane 70.3 % 54.5-135

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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:	12/16/2021	Sampling Date:	12/16/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	15048	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - JAL NM		

Sample ID: EW 1 (H213647-04)

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	12/17/2021	ND	1.96	97.9	2.00	8.67	
Toluene*	<0.050	0.050	12/17/2021	ND	1.94	97.0	2.00	8.65	
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	1.95	97.5	2.00	9.69	
Total Xylenes*	<0.150	0.150	12/17/2021	ND	5.99	99.9	6.00	9.12	
Total BTEX	<0.300	0.300	12/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/17/2021	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	12/20/2021	ND	212	106	200	0.171	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	194	96.9	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 90.7 % 62-130

Surrogate: 1-Chlorooctadecane 70.4 % 54.5-135

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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:	12/16/2021	Sampling Date:	12/16/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	15048	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - JAL NM		

Sample ID: EW 2 (H213647-05)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2021	ND	1.96	97.9	2.00	8.67	
Toluene*	<0.050	0.050	12/17/2021	ND	1.94	97.0	2.00	8.65	
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	1.95	97.5	2.00	9.69	
Total Xylenes*	<0.150	0.150	12/17/2021	ND	5.99	99.9	6.00	9.12	
Total BTEX	<0.300	0.300	12/17/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/17/2021	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	12/20/2021	ND	212	106	200	0.171	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	194	96.9	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 87.0 % 62-130

Surrogate: 1-Chlorooctadecane 65.2 % 54.5-135

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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:	12/16/2021	Sampling Date:	12/16/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	15048	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - JAL NM		

Sample ID: EW 3 (H213647-06)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2021	ND	1.96	97.9	2.00	8.67	
Toluene*	<0.050	0.050	12/17/2021	ND	1.94	97.0	2.00	8.65	
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	1.95	97.5	2.00	9.69	
Total Xylenes*	<0.150	0.150	12/17/2021	ND	5.99	99.9	6.00	9.12	
Total BTEX	<0.300	0.300	12/17/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/17/2021	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	12/20/2021	ND	212	106	200	0.171	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	194	96.9	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 81.9 % 62-130

Surrogate: 1-Chlorooctadecane 58.5 % 54.5-135

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Analytical Results For:

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

Received:	12/16/2021	Sampling Date:	12/16/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	15048	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - JAL NM		

Sample ID: EW 4 (H213647-07)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/17/2021	ND	1.96	97.9	2.00	8.67		
Toluene*	<0.050	0.050	12/17/2021	ND	1.94	97.0	2.00	8.65		
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	1.95	97.5	2.00	9.69		
Total Xylenes*	<0.150	0.150	12/17/2021	ND	5.99	99.9	6.00	9.12		
Total BTEX	<0.300	0.300	12/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/17/2021	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	12/20/2021	ND	212	106	200	0.171		
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	194	96.9	200	2.81		
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND						

Surrogate: 1-Chlorooctane 83.9 % 62-130

Surrogate: 1-Chlorooctadecane 59.4 % 54.5-135

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Analytical Results For:

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

Received:	12/16/2021	Sampling Date:	12/16/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	15048	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 48 (H213647-08)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2021	ND	1.96	97.9	2.00	8.67	
Toluene*	<0.050	0.050	12/17/2021	ND	1.94	97.0	2.00	8.65	
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	1.95	97.5	2.00	9.69	
Total Xylenes*	<0.150	0.150	12/17/2021	ND	5.99	99.9	6.00	9.12	
Total BTEX	<0.300	0.300	12/17/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/17/2021	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	12/20/2021	ND	212	106	200	0.171	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	194	96.9	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 84.2 % 62-130

Surrogate: 1-Chlorooctadecane 59.0 % 54.5-135

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
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Received:	12/16/2021	Sampling Date:	12/16/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	15048	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 49 (H213647-09)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2021	ND	1.96	97.9	2.00	8.67	
Toluene*	<0.050	0.050	12/17/2021	ND	1.94	97.0	2.00	8.65	
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	1.95	97.5	2.00	9.69	
Total Xylenes*	<0.150	0.150	12/17/2021	ND	5.99	99.9	6.00	9.12	
Total BTEX	<0.300	0.300	12/17/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/17/2021	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	12/20/2021	ND	212	106	200	0.171	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	194	96.9	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 85.1 % 62-130

Surrogate: 1-Chlorooctadecane 62.6 % 54.5-135

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Analytical Results For:

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 2617 W MARLAND
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Received:	12/16/2021	Sampling Date:	12/16/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	15048	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 50 @ 4' (H213647-10)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2021	ND	1.96	97.9	2.00	8.67	
Toluene*	<0.050	0.050	12/17/2021	ND	1.94	97.0	2.00	8.65	
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	1.95	97.5	2.00	9.69	
Total Xylenes*	<0.150	0.150	12/17/2021	ND	5.99	99.9	6.00	9.12	
Total BTEX	<0.300	0.300	12/17/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/17/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2021	ND	212	106	200	0.171	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	194	96.9	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 79.3 % 62-130

Surrogate: 1-Chlorooctadecane 56.5 % 54.5-135

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Analytical Results For:

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 HOBBS NM, 88240
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Received:	12/16/2021	Sampling Date:	12/16/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	15048	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 51 @ 4' (H213647-11)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2021	ND	1.96	97.9	2.00	8.67	
Toluene*	<0.050	0.050	12/17/2021	ND	1.94	97.0	2.00	8.65	
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	1.95	97.5	2.00	9.69	
Total Xylenes*	<0.150	0.150	12/17/2021	ND	5.99	99.9	6.00	9.12	
Total BTEX	<0.300	0.300	12/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 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	368	16.0	12/17/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2021	ND	212	106	200	0.171	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	194	96.9	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 80.1 % 62-130

Surrogate: 1-Chlorooctadecane 62.0 % 54.5-135

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/16/2021	Sampling Date:	12/16/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	15048	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - JAL NM		

Sample ID: WW 2 (H213647-12)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2021	ND	1.96	97.9	2.00	8.67	
Toluene*	<0.050	0.050	12/17/2021	ND	1.94	97.0	2.00	8.65	
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	1.95	97.5	2.00	9.69	
Total Xylenes*	<0.150	0.150	12/17/2021	ND	5.99	99.9	6.00	9.12	
Total BTEX	<0.300	0.300	12/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 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	80.0	16.0	12/17/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2021	ND	212	106	200	0.171	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	194	96.9	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 82.4 % 62-130

Surrogate: 1-Chlorooctadecane 63.5 % 54.5-135

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Analytical Results For:

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

Received:	12/16/2021	Sampling Date:	12/16/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	15048	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - JAL NM		

Sample ID: WW 3 (H213647-13)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2021	ND	1.96	97.9	2.00	8.67	
Toluene*	<0.050	0.050	12/17/2021	ND	1.94	97.0	2.00	8.65	
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	1.95	97.5	2.00	9.69	
Total Xylenes*	<0.150	0.150	12/17/2021	ND	5.99	99.9	6.00	9.12	
Total BTEX	<0.300	0.300	12/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	12/17/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2021	ND	212	106	200	0.171	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	194	96.9	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 80.0 % 62-130

Surrogate: 1-Chlorooctadecane 56.8 % 54.5-135

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Analytical Results For:

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

Received:	12/16/2021	Sampling Date:	12/16/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	15048	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - JAL NM		

Sample ID: WW 4 (H213647-14)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2021	ND	1.96	97.9	2.00	8.67	
Toluene*	<0.050	0.050	12/17/2021	ND	1.94	97.0	2.00	8.65	
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	1.95	97.5	2.00	9.69	
Total Xylenes*	<0.150	0.150	12/17/2021	ND	5.99	99.9	6.00	9.12	
Total BTEX	<0.300	0.300	12/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/17/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2021	ND	212	106	200	0.171	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	194	96.9	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 78.9 % 62-130

Surrogate: 1-Chlorooctadecane 58.7 % 54.5-135

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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:	12/16/2021	Sampling Date:	12/16/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	15048	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 52 @ 4' (H213647-15)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2021	ND	1.96	97.9	2.00	8.67	
Toluene*	<0.050	0.050	12/17/2021	ND	1.94	97.0	2.00	8.65	
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	1.95	97.5	2.00	9.69	
Total Xylenes*	<0.150	0.150	12/17/2021	ND	5.99	99.9	6.00	9.12	
Total BTEX	<0.300	0.300	12/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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	400	16.0	12/17/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2021	ND	212	106	200	0.171	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	194	96.9	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 81.6 % 62-130

Surrogate: 1-Chlorooctadecane 63.2 % 54.5-135

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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:	12/16/2021	Sampling Date:	12/16/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	15048	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 47 @ 3.5' (H213647-16)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2021	ND	1.96	97.9	2.00	8.67	
Toluene*	<0.050	0.050	12/17/2021	ND	1.94	97.0	2.00	8.65	
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	1.95	97.5	2.00	9.69	
Total Xylenes*	<0.150	0.150	12/17/2021	ND	5.99	99.9	6.00	9.12	
Total BTEX	<0.300	0.300	12/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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	208	16.0	12/17/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2021	ND	212	106	200	0.171	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	194	96.9	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 84.0 % 62-130

Surrogate: 1-Chlorooctadecane 65.7 % 54.5-135

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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:	12/16/2021	Sampling Date:	12/16/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	15048	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 52 (H213647-17)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2021	ND	1.96	97.9	2.00	8.67	
Toluene*	<0.050	0.050	12/17/2021	ND	1.94	97.0	2.00	8.65	
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	1.95	97.5	2.00	9.69	
Total Xylenes*	<0.150	0.150	12/17/2021	ND	5.99	99.9	6.00	9.12	
Total BTEX	<0.300	0.300	12/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/17/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2021	ND	212	106	200	0.171	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	194	96.9	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 83.0 % 62-130

Surrogate: 1-Chlorooctadecane 64.0 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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December 22, 2021

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZACH 17-8 W1MD FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 12/17/21 16:25.

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:

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

Received:	12/17/2021	Sampling Date:	12/17/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NWA (H213660-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2021	ND	1.81	90.3	2.00	7.47	
Toluene*	<0.050	0.050	12/21/2021	ND	1.85	92.5	2.00	10.8	
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.92	95.8	2.00	11.2	
Total Xylenes*	<0.150	0.150	12/21/2021	ND	6.02	100	6.00	11.0	
Total BTEX	<0.300	0.300	12/21/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/20/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2021	ND	181	90.7	200	1.96	
DRO >C10-C28*	<10.0	10.0	12/21/2021	ND	208	104	200	0.279	
EXT DRO >C28-C36	<10.0	10.0	12/21/2021	ND					

Surrogate: 1-Chlorooctane 63.9 % 62-130

Surrogate: 1-Chlorooctadecane 62.9 % 54.5-135

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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:	12/17/2021	Sampling Date:	12/17/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NWB (H213660-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2021	ND	1.81	90.3	2.00	7.47	
Toluene*	<0.050	0.050	12/21/2021	ND	1.85	92.5	2.00	10.8	
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.92	95.8	2.00	11.2	
Total Xylenes*	<0.150	0.150	12/21/2021	ND	6.02	100	6.00	11.0	
Total BTEX	<0.300	0.300	12/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	12/20/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2021	ND	181	90.7	200	1.96	
DRO >C10-C28*	<10.0	10.0	12/21/2021	ND	208	104	200	0.279	
EXT DRO >C28-C36	<10.0	10.0	12/21/2021	ND					

Surrogate: 1-Chlorooctane 77.9 % 62-130

Surrogate: 1-Chlorooctadecane 78.3 % 54.5-135

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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:	12/17/2021	Sampling Date:	12/17/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FLA @ 1.5' (H213660-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2021	ND	1.81	90.3	2.00	7.47	
Toluene*	<0.050	0.050	12/21/2021	ND	1.85	92.5	2.00	10.8	
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.92	95.8	2.00	11.2	
Total Xylenes*	<0.150	0.150	12/21/2021	ND	6.02	100	6.00	11.0	
Total BTEX	<0.300	0.300	12/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	12/20/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2021	ND	181	90.7	200	1.96	
DRO >C10-C28*	<10.0	10.0	12/21/2021	ND	208	104	200	0.279	
EXT DRO >C28-C36	<10.0	10.0	12/21/2021	ND					

Surrogate: 1-Chlorooctane 73.5 % 62-130

Surrogate: 1-Chlorooctadecane 71.7 % 54.5-135

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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:	12/17/2021	Sampling Date:	12/17/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FLB @ 1.5' (H213660-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2021	ND	1.81	90.3	2.00	7.47	
Toluene*	<0.050	0.050	12/21/2021	ND	1.85	92.5	2.00	10.8	
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.92	95.8	2.00	11.2	
Total Xylenes*	<0.150	0.150	12/21/2021	ND	6.02	100	6.00	11.0	
Total BTEX	<0.300	0.300	12/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	12/20/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2021	ND	181	90.7	200	1.96	
DRO >C10-C28*	<10.0	10.0	12/21/2021	ND	208	104	200	0.279	
EXT DRO >C28-C36	<10.0	10.0	12/21/2021	ND					

Surrogate: 1-Chlorooctane 80.0 % 62-130

Surrogate: 1-Chlorooctadecane 79.5 % 54.5-135

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Analytical Results For:

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

Received:	12/17/2021	Sampling Date:	12/17/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FLC @ 1.5' (H213660-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2021	ND	1.81	90.3	2.00	7.47	
Toluene*	<0.050	0.050	12/21/2021	ND	1.85	92.5	2.00	10.8	
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.92	95.8	2.00	11.2	
Total Xylenes*	<0.150	0.150	12/21/2021	ND	6.02	100	6.00	11.0	
Total BTEX	<0.300	0.300	12/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	80.0	16.0	12/20/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2021	ND	181	90.7	200	1.96	
DRO >C10-C28*	<10.0	10.0	12/21/2021	ND	208	104	200	0.279	
EXT DRO >C28-C36	<10.0	10.0	12/21/2021	ND					

Surrogate: 1-Chlorooctane 72.1 % 62-130

Surrogate: 1-Chlorooctadecane 71.5 % 54.5-135

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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:	12/17/2021	Sampling Date:	12/17/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FLD @ 1.5' (H213660-06)

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	12/21/2021	ND	1.81	90.3	2.00	7.47	
Toluene*	<0.050	0.050	12/21/2021	ND	1.85	92.5	2.00	10.8	
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.92	95.8	2.00	11.2	
Total Xylenes*	<0.150	0.150	12/21/2021	ND	6.02	100	6.00	11.0	
Total BTEX	<0.300	0.300	12/21/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/20/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2021	ND	181	90.7	200	1.96	
DRO >C10-C28*	<10.0	10.0	12/21/2021	ND	208	104	200	0.279	
EXT DRO >C28-C36	<10.0	10.0	12/21/2021	ND					

Surrogate: 1-Chlorooctane 84.3 % 62-130

Surrogate: 1-Chlorooctadecane 84.1 % 54.5-135

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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:	12/17/2021	Sampling Date:	12/17/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - JAL NM		

Sample ID: WWA (H213660-07)

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	12/21/2021	ND	1.81	90.3	2.00	7.47	
Toluene*	<0.050	0.050	12/21/2021	ND	1.85	92.5	2.00	10.8	
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.92	95.8	2.00	11.2	
Total Xylenes*	<0.150	0.150	12/21/2021	ND	6.02	100	6.00	11.0	
Total BTEX	<0.300	0.300	12/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	12/20/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2021	ND	181	90.7	200	1.96	
DRO >C10-C28*	<10.0	10.0	12/21/2021	ND	208	104	200	0.279	
EXT DRO >C28-C36	<10.0	10.0	12/21/2021	ND					

Surrogate: 1-Chlorooctane 74.4 % 62-130

Surrogate: 1-Chlorooctadecane 73.7 % 54.5-135

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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

No Rush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

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

Company Name: Etech Environmental & Safety Solutions, Inc.		BILL TO				ANALYSIS REQUEST																			
Project Manager: Lance Crenshaw		P.O. #:				Chloride TPH (8015M) BTEX (8021B)																			
Address: P.O. Box 301		Company: Mowburne																							
City: Lowington Hobbs State: NM Zip: 88260 88240		Attn: Robbie Runnels																							
Phone #: (575) 396-2378 Fax #: (575) 396-1429		Address:																							
Project #: 15048 Project Owner: Robbie Runnels		City:																							
Project Name: Zach 17-8 NIMD Fed Com IH		State: Zip:																							
Project Location: Mowburne Oil Company		Phone #:																							
Sampler Name: Eric Mojica		Fax #:																							
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME											
H213660																									
1	NWA	C	1			✓							12-17-21		✓	✓	✓								
2	NWB	C	1			✓									✓	✓	✓								
3	FLA = 1/2	C	1			✓									✓	✓	✓								
4	FLB = 1/2	C	1			✓									✓	✓	✓								
5	FLC = 1/2	C	1			✓									✓	✓	✓								
6	FLD = 1/2	C	1			✓									✓	✓	✓								
7	WWA	C	1			✓									✓	✓	✓								

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Relinquished By: Eric Mojica	Date: 12-17-21	Received By: Jodi Hanson	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: 10:25	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 3.60 -5 3.12	Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: [Signature]	REMARKS:	
Please email results to pm@etechenv.com.				



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

December 22, 2021

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZACH 17-8 W1MD FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 12/20/21 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:	12/20/2021	Sampling Date:	12/20/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 53 @ 4' (H213664-01)

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	12/21/2021	ND	1.97	98.5	2.00	6.63	
Toluene*	<0.050	0.050	12/21/2021	ND	1.91	95.7	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.87	93.7	2.00	6.52	
Total Xylenes*	<0.150	0.150	12/21/2021	ND	5.73	95.5	6.00	6.72	
Total BTEX	<0.300	0.300	12/21/2021	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	288	16.0	12/21/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2021	ND	210	105	200	4.45	
DRO >C10-C28*	<10.0	10.0	12/21/2021	ND	238	119	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	12/21/2021	ND					

Surrogate: 1-Chlorooctane 116 % 62-130

Surrogate: 1-Chlorooctadecane 113 % 54.5-135

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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:	12/20/2021	Sampling Date:	12/20/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 54 @ 4' (H213664-02)

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	12/21/2021	ND	1.97	98.5	2.00	6.63	
Toluene*	<0.050	0.050	12/21/2021	ND	1.91	95.7	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.87	93.7	2.00	6.52	
Total Xylenes*	<0.150	0.150	12/21/2021	ND	5.73	95.5	6.00	6.72	
Total BTEX	<0.300	0.300	12/21/2021	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	240	16.0	12/21/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2021	ND	210	105	200	4.45	
DRO >C10-C28*	<10.0	10.0	12/21/2021	ND	238	119	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	12/21/2021	ND					

Surrogate: 1-Chlorooctane 101 % 62-130

Surrogate: 1-Chlorooctadecane 98.4 % 54.5-135

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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:	12/20/2021	Sampling Date:	12/20/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 55 @ 4' (H213664-03)

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	12/21/2021	ND	1.97	98.5	2.00	6.63	
Toluene*	<0.050	0.050	12/21/2021	ND	1.91	95.7	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.87	93.7	2.00	6.52	
Total Xylenes*	<0.150	0.150	12/21/2021	ND	5.73	95.5	6.00	6.72	
Total BTEX	<0.300	0.300	12/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 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	64.0	16.0	12/21/2021	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	12/22/2021	ND	210	105	200	4.45	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	238	119	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 102 % 62-130

Surrogate: 1-Chlorooctadecane 98.7 % 54.5-135

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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:	12/20/2021	Sampling Date:	12/20/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 56 @ 4' (H213664-04)

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	12/21/2021	ND	1.97	98.5	2.00	6.63	
Toluene*	<0.050	0.050	12/21/2021	ND	1.91	95.7	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.87	93.7	2.00	6.52	
Total Xylenes*	<0.150	0.150	12/21/2021	ND	5.73	95.5	6.00	6.72	
Total BTEX	<0.300	0.300	12/21/2021	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	144	16.0	12/21/2021	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	12/21/2021	ND	210	105	200	4.45	
DRO >C10-C28*	<10.0	10.0	12/21/2021	ND	238	119	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	12/21/2021	ND					

Surrogate: 1-Chlorooctane 102 % 62-130

Surrogate: 1-Chlorooctadecane 99.3 % 54.5-135

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

Analytical Results For:

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

Received:	12/20/2021	Sampling Date:	12/20/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 53 (H213664-05)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2021	ND	1.97	98.5	2.00	6.63	
Toluene*	<0.050	0.050	12/21/2021	ND	1.91	95.7	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.87	93.7	2.00	6.52	
Total Xylenes*	<0.150	0.150	12/21/2021	ND	5.73	95.5	6.00	6.72	
Total BTEX	<0.300	0.300	12/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 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	12/21/2021	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	12/21/2021	ND	210	105	200	4.45	
DRO >C10-C28*	<10.0	10.0	12/21/2021	ND	238	119	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	12/21/2021	ND					

Surrogate: 1-Chlorooctane 94.3 % 62-130

Surrogate: 1-Chlorooctadecane 89.6 % 54.5-135

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/20/2021	Sampling Date:	12/20/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 54 (H213664-06)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2021	ND	1.97	98.5	2.00	6.63	
Toluene*	<0.050	0.050	12/21/2021	ND	1.91	95.7	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.87	93.7	2.00	6.52	
Total Xylenes*	<0.150	0.150	12/21/2021	ND	5.73	95.5	6.00	6.72	
Total BTEX	<0.300	0.300	12/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 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	48.0	16.0	12/21/2021	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	12/21/2021	ND	210	105	200	4.45	
DRO >C10-C28*	<10.0	10.0	12/21/2021	ND	238	119	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	12/21/2021	ND					

Surrogate: 1-Chlorooctane 112 % 62-130

Surrogate: 1-Chlorooctadecane 107 % 54.5-135

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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:	12/20/2021	Sampling Date:	12/20/2021
Reported:	12/22/2021	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: SW 55 (H213664-07)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2021	ND	1.97	98.5	2.00	6.63	
Toluene*	<0.050	0.050	12/21/2021	ND	1.91	95.7	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/21/2021	ND	1.87	93.7	2.00	6.52	
Total Xylenes*	<0.150	0.150	12/21/2021	ND	5.73	95.5	6.00	6.72	
Total BTEX	<0.300	0.300	12/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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	12/21/2021	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	12/21/2021	ND	210	105	200	4.45	
DRO >C10-C28*	<10.0	10.0	12/21/2021	ND	238	119	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	12/21/2021	ND					

Surrogate: 1-Chlorooctane 103 % 62-130

Surrogate: 1-Chlorooctadecane 99.1 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



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

January 10, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZACH 17-8 W1MD FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 01/07/22 16:15.

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

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, prominent "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:	01/07/2022	Sampling Date:	01/07/2022
Reported:	01/10/2022	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: WW 5 (H220077-01)

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	01/10/2022	ND	1.99	99.5	2.00	7.27	
Toluene*	<0.050	0.050	01/10/2022	ND	1.91	95.6	2.00	7.56	
Ethylbenzene*	<0.050	0.050	01/10/2022	ND	1.84	92.2	2.00	7.94	
Total Xylenes*	<0.150	0.150	01/10/2022	ND	5.60	93.3	6.00	7.39	
Total BTEX	<0.300	0.300	01/10/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/10/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2022	ND	203	101	200	0.0498	
DRO >C10-C28*	<10.0	10.0	01/10/2022	ND	190	94.9	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	01/10/2022	ND					

Surrogate: 1-Chlorooctane 99.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.1 % 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:	01/07/2022	Sampling Date:	01/07/2022
Reported:	01/10/2022	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: WW 7 (H220077-02)

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	01/10/2022	ND	1.99	99.5	2.00	7.27	
Toluene*	<0.050	0.050	01/10/2022	ND	1.91	95.6	2.00	7.56	
Ethylbenzene*	<0.050	0.050	01/10/2022	ND	1.84	92.2	2.00	7.94	
Total Xylenes*	<0.150	0.150	01/10/2022	ND	5.60	93.3	6.00	7.39	
Total BTEX	<0.300	0.300	01/10/2022	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	<16.0	16.0	01/10/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2022	ND	203	101	200	0.0498	
DRO >C10-C28*	<10.0	10.0	01/10/2022	ND	190	94.9	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	01/10/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 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:	01/07/2022	Sampling Date:	01/07/2022
Reported:	01/10/2022	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 37 @ 3' (H220077-03)

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	01/10/2022	ND	1.99	99.5	2.00	7.27	
Toluene*	<0.050	0.050	01/10/2022	ND	1.91	95.6	2.00	7.56	
Ethylbenzene*	<0.050	0.050	01/10/2022	ND	1.84	92.2	2.00	7.94	
Total Xylenes*	<0.150	0.150	01/10/2022	ND	5.60	93.3	6.00	7.39	
Total BTEX	<0.300	0.300	01/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	01/10/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2022	ND	203	101	200	0.0498	
DRO >C10-C28*	<10.0	10.0	01/10/2022	ND	190	94.9	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	01/10/2022	ND					

Surrogate: 1-Chlorooctane 97.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/07/2022	Sampling Date:	01/07/2022
Reported:	01/10/2022	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: FL 35 @ 3' (H220077-04)

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	01/10/2022	ND	1.99	99.5	2.00	7.27	
Toluene*	<0.050	0.050	01/10/2022	ND	1.91	95.6	2.00	7.56	
Ethylbenzene*	<0.050	0.050	01/10/2022	ND	1.84	92.2	2.00	7.94	
Total Xylenes*	<0.150	0.150	01/10/2022	ND	5.60	93.3	6.00	7.39	
Total BTEX	<0.300	0.300	01/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 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	16.0	16.0	01/10/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2022	ND	203	101	200	0.0498	
DRO >C10-C28*	<10.0	10.0	01/10/2022	ND	190	94.9	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	01/10/2022	ND					

Surrogate: 1-Chlorooctane 109 % 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:	01/07/2022	Sampling Date:	01/07/2022
Reported:	01/10/2022	Sampling Type:	Soil
Project Name:	ZACH 17-8 W1MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	15048	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - JAL NM		

Sample ID: NW 42 (H220077-05)

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	01/10/2022	ND	1.99	99.5	2.00	7.27	
Toluene*	<0.050	0.050	01/10/2022	ND	1.91	95.6	2.00	7.56	
Ethylbenzene*	<0.050	0.050	01/10/2022	ND	1.84	92.2	2.00	7.94	
Total Xylenes*	<0.150	0.150	01/10/2022	ND	5.60	93.3	6.00	7.39	
Total BTEX	<0.300	0.300	01/10/2022	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	16.0	16.0	01/10/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2022	ND	203	101	200	0.0498	
DRO >C10-C28*	<10.0	10.0	01/10/2022	ND	190	94.9	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	01/10/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <i>Etech Environmental</i>		BILL TO		ANALYSIS REQUEST							
Project Manager: <i>Lance Crenshaw</i>		P.O. #:									
Address: <i>2617 W Marland</i>		Company: <i>Newbourn</i>									
City: <i>Hobbs</i> State: <i>NM</i> Zip: <i>88242</i>		Attn: <i>Robbie Runnels</i>									
Phone #: Fax #:		Address:									
Project #: <i>15048</i> Project Owner:		City:									
Project Name: <i>Zach 17-8 WJMD Fed Com 2A</i>		State: Zip:									
Project Location: <i>Jal, NM</i>		Phone #:									
Sampler Name: <i>Tyler Griffin</i>		Fax #:									

FOR LAB USE ONLY		(GRAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	CL	BTEX	VPH
Lab I.D.	Sample I.D.		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :					
<i>H220071</i>																
<i>1</i>	<i>WW5</i>			X					X			<i>1-7-22</i>				
<i>2</i>	<i>WW7</i>			X					X			<i>1-7-22</i>				
<i>3</i>	<i>FL 33 @ 3'</i>			X					X			<i>1-7-22</i>				
<i>4</i>	<i>FL 35 @ 3'</i>			X					X			<i>1-7-22</i>				
<i>5</i>	<i>NW 42</i>			X					X			<i>1-7-22</i>				
				X												
				X												
				X												
				X												

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Relinquished By: <i>Tyler Griffin</i>	Date: <i>1-7-22</i> Time: <i>16:15</i>	Received By: <i>Jamora Olden</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C <i>4.8</i> Corrected Temp. °C <i>4.3</i>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	REMARKS:
		CHECKED BY: (Initials) <i>TO</i>	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C
			Thermometer ID #113 Correction Factor -0.5°C

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

Appendix E

Correspondence

From: [Robbie Runnels](#)
To: [Eads, Cristina, EMNRD](#); [Morgan, Crisha A](#)
Cc: [Connor Walker](#)
Subject: Zach 17/8 W1NC Fed Com #3H
Date: Monday, September 20, 2021 4:16:29 PM

All,

Mewbourne Oil Company had a release greater than 25 bbls at the aforementioned location. The appropriate paperwork will be submitted in the coming days.

Thank you,

Robbie Runnels
Mewbourne Oil Company

Get [Outlook for iOS](#)

From: [Lance Crenshaw](#)
To: [Enviro, OCD, EMNRD](#)
Cc: [Robbie Runnels](#); [Connor Walker](#); [Joel Lowry](#); [Ben Arguijo](#)
Subject: napp2127433772
Date: Friday, January 7, 2022 9:57:19 AM

This email serves as notice that Etech intends to collect excavation confirmation soil samples from the following locations/reportable release sites:

Mewbourne Oil Co – Zach 17/8 W1MD Fed Com #1H Battery– napp2127433772

If you have any questions or need any additional information, please contact Lance Crenshaw by phone (575-631-2532) or email (lance@etechnv.com)

Lance Crenshaw
Etech Environmental & Safety Solutions
575-631-2532

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS
 Action 91342

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 91342
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	4/28/2022