

Incident ID	nAPP2208047071
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;105</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input 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
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

State of New Mexico  
Oil Conservation Division

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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: Greg ChaseTitle: Op. AdminSignature: Gregory A. ChaseDate: 6/27/2022email: Chevyc08@hotmail.comTelephone: (575)703-6604**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: Greg Chase Title: Op. Admin  
Signature: Gregory A. Chase Date: 06/27/2022  
email: Chevyc08@hotmail.com Telephone: (575)703-6604

**OCD Only**

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

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

## Remediation Summary & Soil Closure Request

### G and C Service

### White Federal #1

Lea County, New Mexico

Unit Letter "O", Section 5, Township 18 South, Range 32 East

Latitude 32.771109 North, Longitude 103.786204 West

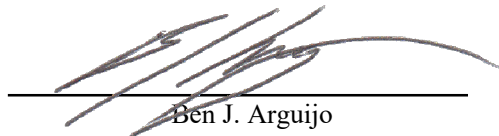
NMOCD Reference No. nAPP2208047071

Prepared By:

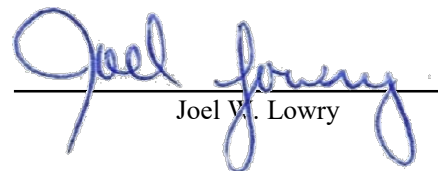
### Etech Environmental & Safety Solutions, Inc.

2507 79th Street, Unit A

Lubbock, Texas 79423



Ben J. Arguijo



Joel W. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette



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## 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of G and C Service, has prepared this Remediation Summary & Soil Closure Request for the release site known as the White Federal #1. Details of the release are summarized below:

### Location of Release Source

Latitude: 32.771109 Longitude: -103.786204  
Provided GPS are in WGS84 format.

Site Name:	White Federal #1	Site Type:	Well Head
Date Release Discovered:	11/12/2021	API # (if applicable):	30-025-29571

Unit Letter	Section	Township	Range	County
"O"	5	18S	32E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name \_\_\_\_\_)

### Nature and Volume of Release

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	Unknown	Volume Recovered (bbls)	0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls)	Unknown	Volume Recovered (bbls)	0
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Condensate	Volume Released (bbls)		Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released		Volume/Weight Recovered	

#### Cause of Release:

There was communication between the White Federal # 1 and an adjacent wellbore that was being completed.

### Initial Response

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

## 2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the White Federal #1 release site.

Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. In addition, on April 1, 2022, an investigative soil boring/temporary monitor well was drilled at the site in an effort to determine if shallow groundwater is present in the area. The soil boring was advanced to a total depth of approximately 105 feet below ground surface (bgs) and left open for over 72 hours. No indications of inflow and/or accumulation of water were noted during the advancement of the soil boring or prior to plugging and abandonment. The location of the investigative soil bore/temporary monitor well is depicted in Figure 2. A drilling log is provided in Appendix B.

What is the shallowest depth to groundwater beneath the area affected by the release?	<b>&gt;105'</b>	
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input 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
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

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

## 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Jalapeno RP are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
>105'	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	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 REMEDIATION ACTIVITIES SUMMARY

On March 22, 2022, remediation activities commenced at the release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a Hach Quantab chloride test kit were utilized to field-screen the vertical and horizontal extent of impacted soil and to guide the excavation. The sidewalls and floor of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

On March 23, 2022, Etech collected 10 confirmation soil samples (EW 1, EW 2, SW 1, SW 2, WW 1 through WW 4, FS 1 @ 6', and FS 2 @ 2') 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. BTEX and TPH concentrations were also below the applicable laboratory method detection limit (MDL) in a majority of the soil samples, with the exceptions of samples WW 3 and FS 1 @ 6', which exhibited TPH concentrations of 25.3 mg/kg and 213 mg/kg, respectively. Chloride concentrations ranged from less than the laboratory MDL (EW 1, EW 2, and SW 2) to 176 mg/kg (FS 1 @ 6').

On March 24, 2022, Etech collected nine (9) confirmation soil samples (EW 3, EW 4, WW 5, and FS 3 @ 2' through FS 8 @ 2') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were below the applicable laboratory MDL in a majority of the soil samples, with the exceptions of samples WW 5 and FS 4 @ 2', which exhibited TPH concentrations of 30.1 mg/kg and 20.3 mg/kg, respectively. Chloride concentrations ranged from less than the laboratory MDL (EW 3, WW 5, FS 3 @ 2', and FS 6 @ 2') to 80.0 mg/kg (FS 4 @ 2').

On March 28, 2022, Etech collected 19 confirmation soil samples (NW #1, EW #5, EW #6, EW #7, SW #3, SW #4, WW #6 through WW #9, and FS 9 @ 3' through FS 17 @ 2') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX and chloride concentrations were also below the applicable NMOCD Reclamation Standards. BTEX and TPH concentrations were below the applicable laboratory MDL in a majority of the soil samples, with the exceptions of samples SW #3, FS 12 @ 3', FS 14 @ 6', FS 15 @ 2', and FS 16 @ 2', which exhibited TPH concentrations ranging from 28.1 mg/kg (FS 16 @ 5') to 311 mg/kg (SW #3). Chloride concentrations ranged from 32.0 mg/kg (NW #1, EW #7, WW #8, FS 10 @ 3', and FS 15 @ 2') to 112 mg/kg (SW #3, WW #9, and FS 16 @ 2').

Based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples SW #3 and FS 15 @ 2', which exceeded the NMOCD Reclamation Standard for TPH.

On March 31, 2022, Etech collected 10 confirmation soil samples (SW 3A, FS 15 @ 3', and FS 18 @ 2' through FS 25 @ 1') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX and chloride concentrations were also below the applicable NMOCD Reclamation Standards. BTEX concentrations were less than the laboratory MDL in each of the soil samples. TPH concentrations ranged from 37.0 mg/kg (FS 22 @ 1') to 593 mg/kg (FS 24 @ 1'). Chloride concentrations ranged from 32.0 mg/kg (FS 22 @ 1') to 176 mg/kg (FS 24 @ 1').

Based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples SW 3A, FS 15 @ 3', FS 18 @ 2' through FS 21 @ 1', FS 23 @ 1', FS 24 @ 1', and FS 25 @ 1', which exceeded the NMOCD Reclamation Standard for TPH.

On April 1, 2022, Etech collected 10 confirmation soil samples (NW #2 and FS 26 @ 3' through FS 34 @ 1') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX and chloride concentrations were also below the applicable NMOCD Reclamation Standards. BTEX concentrations were less than the laboratory MDL in each of the soil samples. TPH concentrations ranged from 11.1 mg/kg (FS 31 @ 1') to 411 mg/kg (FS 26 @ 3'). Chloride concentrations ranged from 64.0 mg/kg (FS 28 @ 1') to 304 mg/kg (FS 32 @ 8").

Based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples NW #2 and FS 26 @ 3' through FS 29 @ 1', which exceeded the NMOCD Reclamation Standard for TPH.

On April 4, 2022, Etech collected 16 confirmation soil samples (FS #35 @ 1' through FS #50) from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX concentrations were also below the NMOCD Reclamation Standard and the laboratory MDL, with the exception of soil sample FS #49, which exhibited a concentration of 0.329 mg/kg. GRO+DRO concentrations exceeded the NMOCD Closure Criterion in soil sample FS #49 and ranged from 33.8 mg/kg (FS #35 @ 1') to 1,510 mg/kg (FS #49). TPH concentrations ranged from 33.8 mg/kg (FS #35 @ 1') to 1,767 mg/kg (FS #49). Chloride concentrations ranged from 80.0 mg/kg (FS #37 @ 8", FS #42 @ 8", FS #43 @ 8", and FS #48) to 672 mg/kg (FS #40 @ 8").

Based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample FS #49.

On April 5, 2022, Etech collected 10 confirmation soil samples (FS #51 @ 8" through FS #60 @ 8") from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX concentrations were also below the NMOCD Reclamation Standard and the laboratory MDL. GRO+DRO concentrations exceeded the NMOCD Closure Criterion in soil sample FS #56 @ 8" and ranged from 93.2 mg/kg (FS #60 @ 8") to 1,400 mg/kg (FS #56 @ 8"). TPH concentrations ranged from 107 mg/kg (FS #60 @ 8") to 1,689 mg/kg (FS #56 @ 8"). Chloride concentrations ranged from 96.0 mg/kg (FS #59 @ 8") to 1,440 mg/kg (FS #57 @ 8").

Based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples FS #56 @ 8", as well as FS #57 @ 8", which exceeded the NMOCD Reclamation Standard for TPH.

On April 6, 2022, Etech collected 30 confirmation soil samples (FS #61 @ 8" through FS #90 @ 8") from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX concentrations were also below the NMOCD Reclamation Standard and the laboratory MDL. GRO+DRO concentrations exceeded the NMOCD Closure Criterion in soil samples FS #66 @ 8", FS #69 @ 8", FS #80 @ 8", and FS #83 @ 8" and ranged from less than the laboratory MDL (FS #61 @ 8", FS #62 @ 8", FS #70 @ 8", FS #71 @ 8", FS #75 @ 8" through FS #78 @ 8", FS #81 @ 8", FS #88 @ 8", FS #89 @ 8", and FS #90 @ 8") to 6,350 mg/kg (FS #69 @ 8"). TPH concentrations exceeded the NMOCD Closure Criterion in soil sample FS #69 @ 8" and ranged from less than the laboratory MDL (FS #61 @ 8", FS #62 @ 8", FS #70 @ 8", FS #71 @ 8", FS #75 @ 8" through FS #78 @ 8", FS #81 @ 8", FS #88 @ 8", FS #89 @ 8", and FS #90 @ 8") to 8,530 mg/kg (FS #69 @ 8"). Chloride concentrations ranged from less than the laboratory MDL (FS #61 @ 8", FS #62 @ 8", FS #76 @ 8", FS #77 @ 8", and FS #78 @ 8") to 2,280 mg/kg (FS #66 @ 8").

Based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples FS #66 @ 8", FS #69 @ 8", FS #80 @ 8", and FS #83 @ 8", as well as FS #65 @ 8", FS #67 @ 8", and FS #86 @ 8", which exceeded the NMOCD Reclamation Standard for TPH.

On April 7, 2022, Etech collected 34 confirmation soil samples (FS 91 @ 8" through FS 124 @ 8") from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX concentrations were also below the NMOCD Reclamation Standard and the laboratory MDL in a majority of the soil samples, with the exceptions of samples FS 93 @ 8", FS 95 @ 8", FS 110 @ 8", FS 119 @ 8", FS 121 @ 8", and FS 124 @ 8", which exhibited concentrations ranging from 0.404 mg/kg (FS 93 @ 8") to 1.36 mg/kg (FS 119 @ 8"). GRO+DRO concentrations exceeded the NMOCD Closure Criterion in soil samples FS 94 @ 8", FS 95 @ 8", FS 110 @ 8", FS 112 @ 8", FS 119 @ 8", FS 121 @ 8", and FS 124 @ 8" and ranged from less than the laboratory MDL (FS 97 @ 8", FS 98 @ 8", FS 99 @ 8", FS 105 @ 8", FS 107 @ 8", FS 108 @ 8", and FS 116 @ 8") to 5,552 mg/kg (FS 124 @ 8"). TPH concentrations exceeded the NMOCD Closure Criterion in soil samples FS 95 @ 8", FS 110 @ 8", and FS 124 @ 8" and ranged from 32.0 mg/kg (FS 98 @ 8", FS 99 @ 8", FS 105 @ 8", FS 107 @ 8", FS 108 @ 8", and FS 116 @ 8") to 6,702 mg/kg (FS 124 @ 8"). Chloride concentrations ranged from 32.0 mg/kg (FS 100 @ 8", FS 108 @ 8", and FS 116 @ 8") to 3,800 mg/kg (FS 124 @ 8").

Based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples FS 94 @ 8", FS 95 @ 8", FS 110 @ 8", FS 112 @ 8", FS 119 @ 8", FS 121 @ 8", and FS 124 @ 8", as well as FS 113 @ 8" and FS 120 @ 8", which exceeded the NMOCD Reclamation Standard for TPH.

On April 8, 2022, Etech collected 25 confirmation soil samples (NW 2, NW 3, EW 8 through EW 12, WW 10 through WW 13, FS 125 @ 8" through FS 138 @ 8") 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 and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX concentrations were also below the NMOCD Reclamation Standard and the laboratory MDL in a majority of the soil samples, with the exceptions of samples FS 131 @ 8", FS 135 @ 8", FS 137 @ 8", and FS 138 @ 8", which exhibited concentrations ranging from 0.382 mg/kg (FS 135 @ 8") to 6.21 mg/kg (FS 138 @ 8"). GRO+DRO concentrations exceeded the NMOCD Closure Criterion in soil samples EW 11, FS 125 @ 8", FS 131 @ 8", FS 135 @ 8", FS 137 @ 8", and FS 138 @ 8" and ranged from less than the laboratory MDL (NW 2, NW 3, WW 10, and WW 11) to 5,384 mg/kg (FS 138 @ 8"). TPH concentrations exceeded the NMOCD Closure Criterion in soil samples FS 131 @ 8" and FS 138 @ 8" and ranged from less than the laboratory MDL (W 2, NW 3, WW 10, and WW 11) to 6,394 mg/kg (FS 138 @ 8"). Chloride concentrations ranged from 32.0 mg/kg (NW 2, NW 3, and WW 12) to 4,800 mg/kg (EW 9).

Based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples EW 11, FS 125 @ 8", FS 131 @ 8", FS 135 @ 8", FS 137 @ 8", and FS 138 @ 8", as well as WW 13, FS 129 @ 8", and FS 134 @ 8", which exceeded the NMOCD Reclamation Standard for TPH.

On April 11, 2022, Etech collected 40 confirmation soil samples (SW 3B, FS 15 @ 4', FS 18 @ 3' through FS 21 @ 2', FS 23 @ 2', FS 24 @ 2', FS 25 @ 2', FS 49 @ 1.5', FS 56 @ 1.5', FS 57 @ 1.5', and FS 139 @ 2' through FS 166 @ 2') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX and chloride concentrations were also below the applicable NMOCD Reclamation Standards. BTEX concentrations were less than the laboratory MDL in each of the soil samples. TPH concentrations ranged from less than the laboratory MDL (SW 3B, FS 20 @ 2', FS 23 @ 2', FS 24 @ 2', FS 49 @ 1.5', FS 56 @ 1.5', FS 139 @ 2', FS 142 @ 2', FS 145 @ 2', FS 147 @ 2', FS 155 @ 2', and FS 156 @ 2') to 152.3 mg/kg (FS 148 @ 2'). Chloride concentrations ranged from 16.0 mg/kg (FS 146 @ 2', FS 149 @ 2', FS 155 @ 2', FS 157 @ 2', and FS 159 @ 2') to 64.0 mg/kg (FS 142 @ 2', FS 143 @ 2', FS 147 @ 2', and FS 150 @ 2').

Based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples FS 25 @ 2', FS 148 @ 2', and FS 163 @ 2', which exceeded the NMOCD Reclamation Standard for TPH.



On April 12, 2022, Etech collected 20 confirmation soil samples (FS 65 @ 1.5', FS 66 @ 1.5', FS 67 @ 1.5', FS 69 @ 1.5', FS 80 @ 3', FS 83 @ 1.5', FS 86 @ 1.5', and FS 167 @ 2' through FS 179 @ 2') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX and chloride concentrations were also below the applicable NMOCD Reclamation Standards. BTEX concentrations were less than the laboratory MDL in each of the soil samples. TPH concentrations ranged from less than the laboratory MDL (FS 167 @ 2' through FS 172 @ 2', FS 174 @ 2' through FS 177 @ 2', and FS 179 @ 2') to 735 mg/kg (FS 83 @ 1.5'). Chloride concentrations ranged from 16.0 mg/kg (FS 168 @ 2', FS 170 @ 2', FS 174 @ 2', and FS 176 @ 2') to 96.0 mg/kg (FS 167 @ 2', FS 169 @ 2', and FS 178 @ 2').

On April 13, 2022, Etech collected 40 confirmation soil samples (FS 94 @ 2', FS 95 @ 2', FS 110 @ 2', FS 112 @ 2', FS 113 @ 2', FS 119 @ 2', FS 120 @ 2', FS 121 @ 2', FS 124 @ 2', and FS 180 @ 2' through FS 210 @ 2') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX and chloride concentrations were also below the applicable NMOCD Reclamation Standards. BTEX concentrations were less than the laboratory MDL in each of the soil samples. TPH concentrations ranged from less than the laboratory MDL (FS 181 @ 2' through FS 190 @ 2', FS 192 @ 2', FS 193 @ 2', FS 195 @ 2' through FS 198 @ 2', FS 200 @ 2' through FS 204 @ 2', and FS 208 @ 2'). Chloride concentrations ranged from less than the laboratory MDL (FS 182 @ 2', FS 183 @ 2', FS 186 @ 2', FS 187 @ 2', FS 190 @ 2', FS 192 @ 2', FS 193 @ 2', and FS 198 @ 2') to 96.0 mg/kg (FS 209 @ 2' and FS 210 @ 2').

Based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples FS 180 @ 2', FS 191 @ 2', FS 194 @ 2', FS 199 @ 2', FS 205 @ 2', and FS 207 @ 2', which exceeded the NMOCD Reclamation Standard for TPH.

On April 19, 2022, Etech collected 10 confirmation soil samples (EW 11A, WW 13A, FS 25 @ 3', FS 125 @ 1.5', FS 129 @ 1.5', FS 131 @ 1.5', FS 134 @ 1.5', FS 135 @ 1.5', FS 137 @ 1.5', and FS 138 @ 1.5') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of TPH. Laboratory analytical results indicated GRO+DRO concentrations exceeded the NMOCD Closure Criterion in soil sample FS 129 @ 1.5' and ranged from less than the laboratory MDL (FS 25 @ 3') to 1,010 mg/kg (FS 129 @ 1.5'). TPH concentrations were below the NMOCD Closure Criterion in each of the submitted soil samples and ranged from less than the laboratory MDL (FS 25 @ 3') to 1,296 mg/kg (FS 129 @ 1.5').

Based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample FS 129 @ 1.5'.

On April 20, 2022, Etech collected 12 confirmation soil samples (FS 26 @ 3' through FS 29 @ 3', FS 148 @ 3', FS 163 @ 3', FS 180 @ 3', FS 191 @ 3', FS 194 @ 3', FS 199 @ 3', FS 205 @ 3', and FS 207 @ 3') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of TPH. Laboratory analytical results indicated TPH concentrations were below the NMOCD Closure Criterion, NMOCD Reclamation Standard, and laboratory MDL in each of the submitted soil samples.

On April 26, 2022, Etech collected one (1) confirmation soil sample (FS 129 @ 2.5') from the floor of the excavated area. The soil sample was submitted to the laboratory for analysis of TPH. Laboratory analytical results indicated the TPH concentration was below the NMOCD Closure Criterion, NMOCD Reclamation Standard, and laboratory MDL.

The final dimensions of the excavated area were approximately 190 to 382 feet in length, 10 to 224 feet in width, and eight (8) inches to six (6) feet in depth. During the course of remediation activities, Etech transported approximately 2,808 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 2,504 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

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

## **5.0 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.

## **6.0 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 G and C Service provide copies of this Remediation Summary & Soil Closure Request to the appropriate agencies and request closure be granted to the White Federal #1 release site.

## **7.0 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 G and C Service. Use of the information contained in this report is prohibited without the consent of Etech and/or G and C Service.



## **8.0 DISTRIBUTION**

***G and C Service***

*P.O. Box 1618*

*Artesia, NM 88211-1618*

***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*

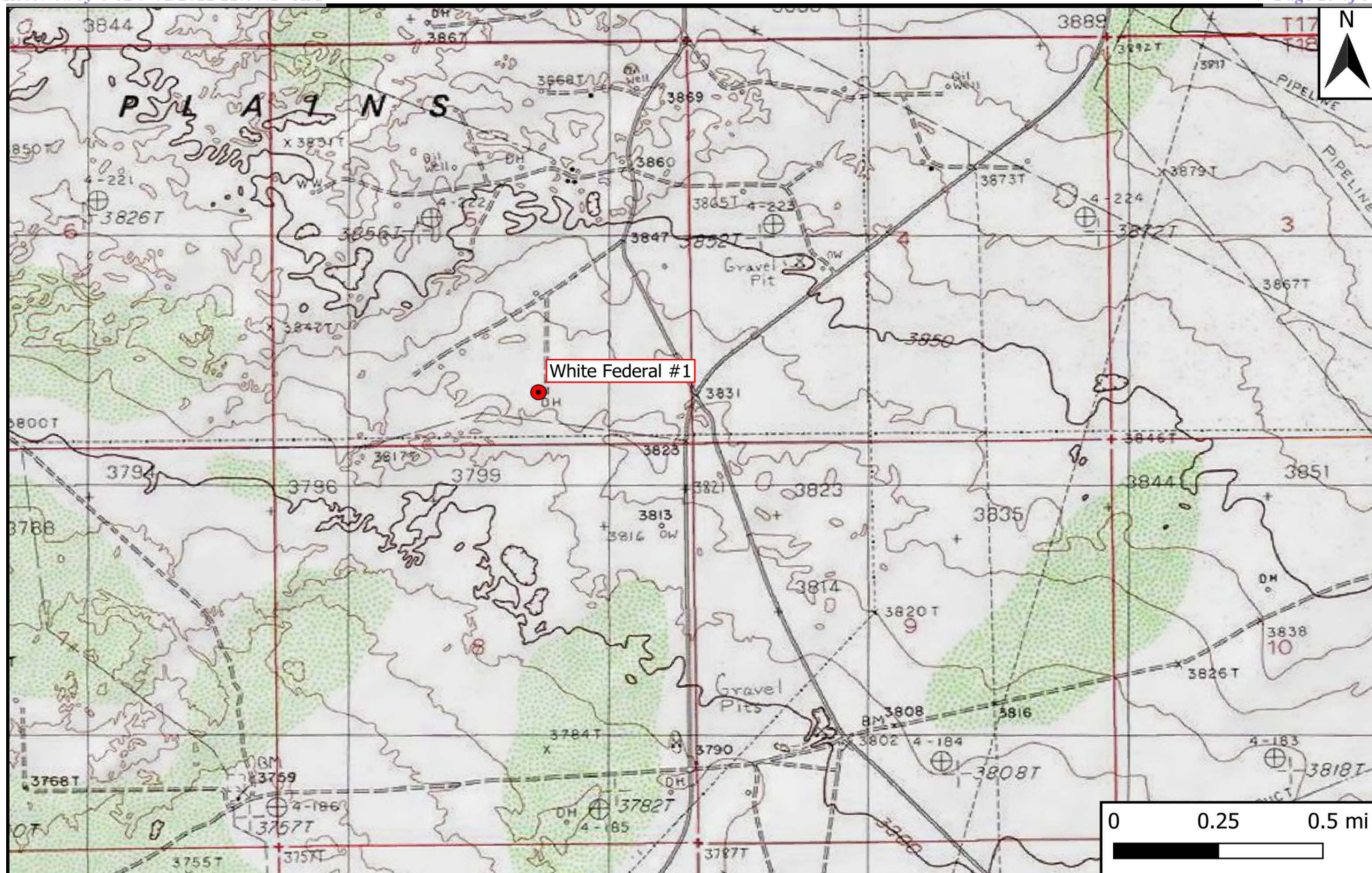
*620 E. Greene Street*

*Carlsbad, NM 88220*


*(Electronic Submission)*

# **Figure 1**

## **Topographic Map**



### Legend

 Site Location

### Figure 1

## Topographic Map

### G and C Service

White Federal #1

GPS: 32.771109, -103.786204

Lea County

eTECH

**Environmental & Safety Solutions, Inc.**

Drafted: bja

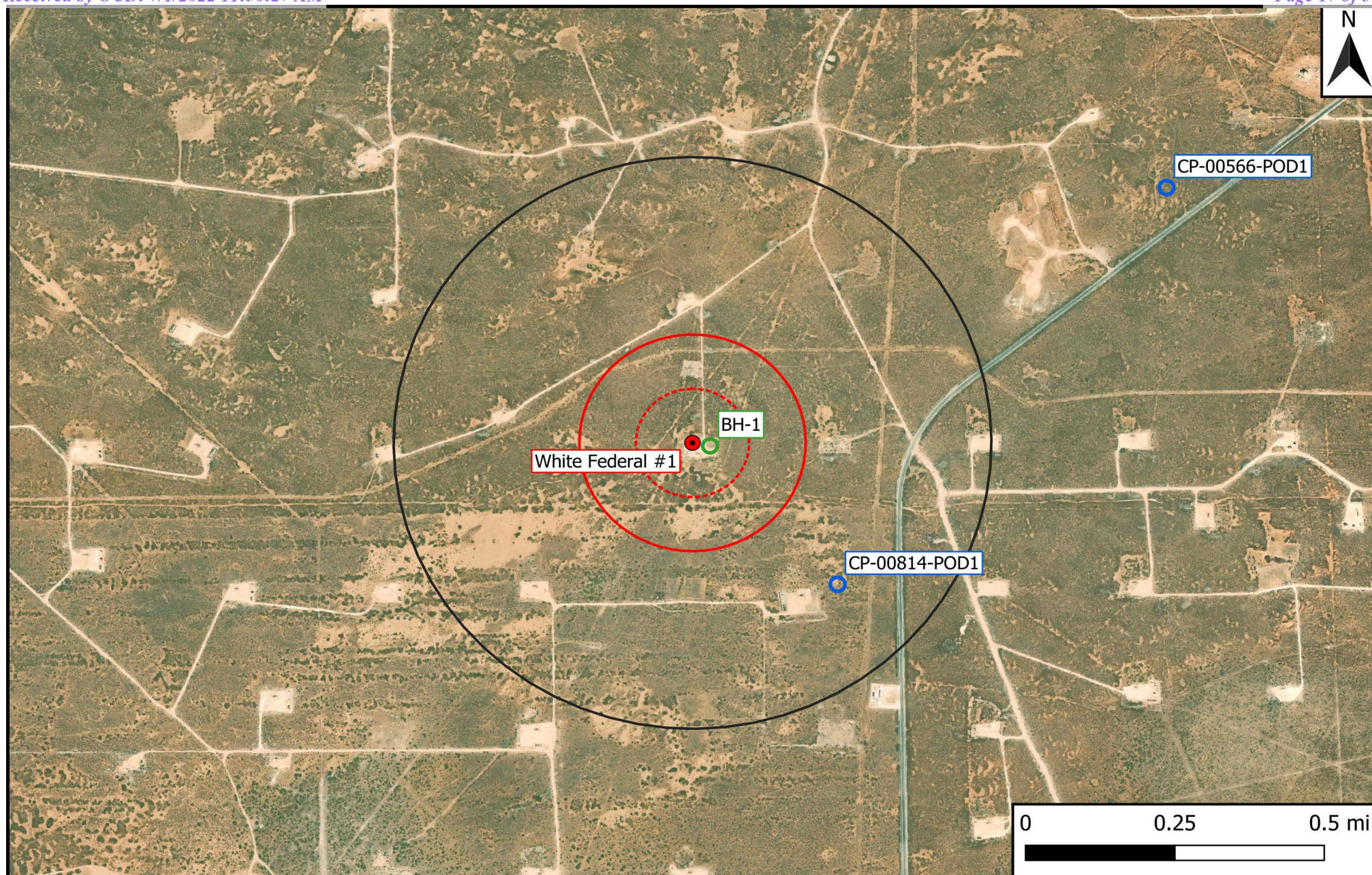
Checked: jwl

Date: 5/10/22

## **Figure 2**

### **Aerial Proximity Map**





## Legend

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

**Figure 2**  
Aerial Proximity Map  
G and C Service  
White Federal #1  
GPS: 32.771109, -103.786204  
Lea County



Drafted: bja

Checked: jwl

Date: 5/10/22



## **Figure 3**

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







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



**Table 1**  
**Concentrations of BTEX, TPH & Chloride in Soil**  
**G and C Service**  
**White Federal #1**  
**NMOCD Ref. #: nAPP2208047071**

NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
NW #1	3/28/2022	0-0.66	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW #2	4/1/2022	0-1.5	Excavated	<0.050	<0.300	<10.0	107	107	29.7	137	240
NW 2	4/8/2022	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 3	4/8/2022	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 1	3/23/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW 2	3/23/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW 3	3/24/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW 4	3/24/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW #5	3/28/2022	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW #6	3/28/2022	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW #7	3/28/2022	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 8	4/8/2022	0-1.5	In-Situ	<0.050	<0.300	<10.0	153	153	122	275	240
EW 9	4/8/2022	0-2	In-Situ	<0.050	<0.300	<10.0	656	656	173	829	4,800
EW 10	4/8/2022	0-1.5	In-Situ	<0.050	<0.300	<10.0	511	511	170	681	3,840
EW 11	4/8/2022	0-0.66	Excavated	<0.050	<0.300	<10.0	1,670	1,670	497	2,167	1,280
EW 11A	4/19/2022	0-0.66	In-Situ	-	-	<10.0	42.3	42.3	10.3	52.6	-
EW 12	4/8/2022	0-0.66	In-Situ	<0.050	<0.300	<10.0	22.8	22.8	13.5	36.3	336
SW 1	3/23/2022	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW 2	3/23/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW #3	3/28/2022	0-6	Excavated	<0.050	<0.300	<10.0	196	196	115	311	112
SW 3A	3/31/2022	0-6	Excavated	-	-	<10.0	267	267	68.6	336	-
SW 3B	4/11/2022	0-6	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
SW #4	3/28/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WW 1	3/23/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW 2	3/23/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 3	3/23/2022	0-2	In-Situ	<0.050	<0.300	<10.0	25.3	25.3	<10.0	25.3	32.0
WW 4	3/23/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
WW 5	3/24/2022	0-2	In-Situ	<0.050	<0.300	<10.0	30.1	30.1	<10.0	30.1	<16.0
WW #6	3/28/2022	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WW #7	3/28/2022	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW #8	3/28/2022	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW #9	3/28/2022	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
WW 10	4/8/2022	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
WW 11	4/8/2022	0-0.66	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 12	4/8/2022	0-0.66	In-Situ	<0.050	<0.300	<10.0	11.8	11.8	<10.0	11.8	32.0
WW 13	4/8/2022	0-0.66	Excavated	<0.050	<0.300	<10.0	465	465	867	1,332	80.0
WW 13A	4/19/2022	0-0.66	In-Situ	-	-	<10.0	49.2	49.2	<10.0	49.2	-
FS 1 @ 6'	3/23/2022	6	In-Situ	<0.050	<0.300	<10.0	181	181	32.4	213	176
FS 2 @ 2'	3/23/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS 3 @ 2'	3/24/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FS 4 @ 2'	3/24/2022	2	In-Situ	<0.050	<0.300	<10.0	20.3	20.3	<10.0	20.3	80.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

**Table 1**  
**Concentrations of BTEX, TPH & Chloride in Soil**  
**G and C Service**  
**White Federal #1**  
**NMOCD Ref. #: nAPP2208047071**

NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FS 5 @ 2'	3/24/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS 6 @ 2'	3/24/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FS 7 @ 2'	3/24/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS 8 @ 2'	3/24/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 9 @ 3'	3/28/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 10 @ 3'	3/28/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 11 @ 3'	3/28/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 12 @ 3'	3/28/2022	3	In-Situ	<0.050	<0.300	<10.0	32.0	32.0	16.4	48.4	48.0
FS 13 @ 6'	3/28/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 14 @ 6'	3/28/2022	6	In-Situ	<0.050	<0.300	<10.0	49.8	49.8	<10.0	49.8	48.0
FS 15 @ 2'	3/28/2022	2	Excavated	<0.050	<0.300	<10.0	69.8	69.8	54.6	124	32.0
FS 15 @ 3'	3/31/2022	3	Excavated	-	-	<10.0	419	419	120	539	-
FS 15 @ 4'	4/11/2022	4	In-Situ	-	-	<10.0	26.8	26.8	11.1	37.9	-
FS 16 @ 2'	3/28/2022	2	In-Situ	<0.050	<0.300	<10.0	28.1	28.1	<10.0	28.1	112
FS 17 @ 2'	3/28/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 18 @ 2'	3/31/2022	2	Excavated	<0.050	<0.300	<10.0	332	332	62.2	394	112
FS 18 @ 3'	4/11/2022	3	In-Situ	-	-	<10.0	21.9	21.9	<10.0	21.9	-
FS 19 @ 1'	3/31/2022	1	Excavated	<0.050	<0.300	<10.0	461	461	122	583	80.0
FS 19 @ 2'	4/11/2022	2	In-Situ	-	-	<10.0	25.7	25.7	<10.0	25.7	-
FS 20 @ 1'	3/31/2022	1	Excavated	<0.050	<0.300	<10.0	399	399	116	515	96.0
FS 20 @ 2'	4/11/2022	2	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FS 21 @ 1'	3/31/2022	1	Excavated	<0.050	<0.300	<10.0	306	306	77.4	383	144
FS 21 @ 2'	4/11/2022	2	In-Situ	-	-	<10.0	10.7	10.7	<10.0	10.7	-
FS 22 @ 1'	3/31/2022	1	In-Situ	<0.050	<0.300	<10.0	21.9	21.9	15.1	37.0	32.0
FS 23 @ 1'	3/31/2022	1	Excavated	<0.050	<0.300	<10.0	384	384	110	494	80.0
FS 23 @ 2'	4/11/2022	2	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FS 24 @ 1'	3/31/2022	1	Excavated	<0.050	<0.300	<10.0	463	463	130	593	176
FS 24 @ 2'	4/11/2022	2	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FS 25 @ 1'	3/31/2022	1	Excavated	<0.050	<0.300	<10.0	199	199	66.6	266	240
FS 25 @ 2'	4/11/2022	2	Excavated	-	-	<10.0	72.3	72.3	48.6	121	-
FS 25 @ 3'	4/19/2022	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FS 26 @ 3'	4/1/2022	3	Excavated	<0.050	<0.300	<10.0	314	314	97.4	411	96.0
FS 26 @ 3'	4/20/2022	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FS 27 @ 1'	4/1/2022	1	Excavated	<0.050	<0.300	<10.0	197	197	46.6	244	128
FS 27 @ 3'	4/20/2022	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FS 28 @ 1'	4/1/2022	1	Excavated	<0.050	<0.300	<10.0	135	135	43.0	178	64.0
FS 28 @ 3'	4/20/2022	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FS 29 @ 1'	4/1/2022	1	Excavated	<0.050	<0.300	<10.0	117	117	42.6	160	96.0
FS 29 @ 3'	4/20/2022	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FS 30 @ 1'	4/1/2022	1	In-Situ	<0.050	<0.300	<10.0	50.4	50.4	26.5	76.9	128
FS 31 @ 1'	4/1/2022	1	In-Situ	<0.050	<0.300	<10.0	11.1	11.1	<10.0	11.1	224

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

**Table 1**  
**Concentrations of BTEX, TPH & Chloride in Soil**  
**G and C Service**  
**White Federal #1**  
**NMOCD Ref. #: nAPP2208047071**

NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FS 32 @ 8"	4/1/2022	0.66	In-Situ	<0.050	<0.300	<10.0	12.4	12.4	<10.0	12.4	304
FS 33 @ 8"	4/1/2022	0.66	In-Situ	<0.050	<0.300	<10.0	124	124	42.9	167	240
FS 34 @ 1'	4/1/2022	1	In-Situ	<0.050	<0.300	<10.0	57.0	57.0	19.5	76.5	144
FS #35 @ 1'	4/4/2022	1	In-Situ	<0.050	<0.300	<10.0	33.8	33.8	<10.0	33.8	112
FS #36 @ 8"	4/4/2022	0.66	In-Situ	<0.050	<0.300	<10.0	325	325	76.4	401	96.0
FS #37 @ 8"	4/4/2022	0.66	In-Situ	<0.050	<0.300	<10.0	138	138	45.2	183	80.0
FS #38 @ 8"	4/4/2022	0.66	In-Situ	<0.050	<0.300	<10.0	146	146	41.2	187	96.0
FS #39 @ 8"	4/4/2022	0.66	In-Situ	<0.050	<0.300	<10.0	268	268	79.9	348	384
FS #40 @ 8"	4/4/2022	0.66	In-Situ	<0.050	<0.300	<10.0	256	256	72.1	328	672
FS #41 @ 8"	4/4/2022	0.66	In-Situ	<0.050	<0.300	<10.0	185	185	48.2	233	160
FS #42 @ 8"	4/4/2022	0.66	In-Situ	<0.050	<0.300	<10.0	416	416	91.8	508	80.0
FS #43 @ 8"	4/4/2022	0.66	In-Situ	<0.050	<0.300	<10.0	369	369	95.7	465	80.0
FS #44 @ 8"	4/4/2022	0.66	In-Situ	<0.050	<0.300	<10.0	197	197	53.2	250	144
FS #45	4/4/2022	0.66	In-Situ	<0.050	<0.300	<10.0	601	601	143	744	640
FS #46	4/4/2022	0.66	In-Situ	<0.050	<0.300	<10.0	540	540	158	698	576
FS #47	4/4/2022	0.66	In-Situ	<0.050	<0.300	<10.0	200	200	29.7	230	256
FS #48	4/4/2022	0.66	In-Situ	<0.050	<0.300	<10.0	195	195	32.9	228	80.0
FS #49	4/4/2022	0.66	Excavated	<0.050	0.329	<10.0	1,510	<b>1,510</b>	257	1,767	96.0
FS 49 @ 1.5'	4/11/2022	1.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FS #50	4/4/2022	0.66	In-Situ	<0.050	<0.300	<10.0	215	215	50.4	265	272
FS #51 @ 8"	4/5/2022	0.66	In-Situ	<0.050	<0.300	<10.0	323	323	65.4	388	496
FS #52 @ 8"	4/5/2022	0.66	In-Situ	<0.050	<0.300	<10.0	251	251	55.5	307	368
FS #53 @ 8"	4/5/2022	0.66	In-Situ	<0.050	<0.300	<10.0	404	404	64.9	469	144
FS #54 @ 8"	4/5/2022	0.66	In-Situ	<0.050	<0.300	<10.0	230	230	53.4	283	416
FS #55 @ 8"	4/5/2022	0.66	In-Situ	<0.050	<0.300	<10.0	131	131	26.7	158	800
FS #56 @ 8"	4/5/2022	0.66	Excavated	<0.050	<0.300	<10.0	1,400	<b>1,400</b>	289	1,689	1,040
FS 56 @ 1.5'	4/11/2022	1.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FS #57 @ 8"	4/5/2022	0.66	Excavated	<0.050	<0.300	<10.0	833	833	188	<b>1,021</b>	<b>1,440</b>
FS 57 @ 1.5'	4/11/2022	1.5	In-Situ	-	-	<10.0	11.4	11.4	13.9	25.3	-
FS #58 @ 8"	4/5/2022	0.66	In-Situ	<0.050	<0.300	<10.0	145	145	37.9	183	544
FS #59 @ 8"	4/5/2022	0.66	In-Situ	<0.050	<0.300	<10.0	168	168	24.6	193	96.0
FS #60 @ 8"	4/5/2022	0.66	In-Situ	<0.050	<0.300	<10.0	93.2	93.2	14.2	107	272
FS #61 @ 8"	4/6/2022	0.66	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FS #62 @ 8"	4/6/2022	0.66	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FS #63 @ 8"	4/6/2022	0.66	In-Situ	<0.050	<0.300	<10.0	271	271	62.2	333	48.0
FS #64 @ 8"	4/6/2022	0.66	In-Situ	<0.050	<0.300	<10.0	258	258	52.0	310	144
FS #65 @ 8"	4/6/2022	0.66	Excavated	<0.050	<0.300	<10.0	875	875	209	<b>1,084</b>	<b>1,520</b>
FS 65 @ 1.5'	4/12/2022	1.5	In-Situ	-	-	<10.0	111	111	<10.0	111	-
FS #66 @ 8"	4/6/2022	0.66	Excavated	<0.050	<0.300	<10.0	1,810	<b>1,810</b>	474	2,284	2,280
FS 66 @ 1.5'	4/12/2022	1.5	In-Situ	-	-	<10.0	184	184	32.7	217	-
FS #67 @ 8"	4/6/2022	0.66	Excavated	<0.050	<0.300	<10.0	896	896	455	<b>1,351</b>	<b>1,680</b>

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

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

**Table 1**  
**Concentrations of BTEX, TPH & Chloride in Soil**  
**G and C Service**  
**White Federal #1**  
**NMOCD Ref. #: nAPP2208047071**

NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FS 67 @ 1.5'	4/12/2022	1.5	In-Situ	-	-	<10.0	265	265	69.7	335	-
FS #68 @ 8"	4/6/2022	0.66	In-Situ	<0.050	<0.300	<10.0	171	171	90.5	262	880
FS #69 @ 8"	4/6/2022	0.66	Excavated	<0.050	<0.300	<50.0	6,350	<b>6,350</b>	2,180	<b>8,530</b>	816
FS 69 @ 1.5'	4/12/2022	1.5	In-Situ	-	-	<10.0	122	122	12.8	135	-
FS #70 @ 8"	4/6/2022	0.66	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS #71 @ 8"	4/6/2022	0.66	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS #72 @ 8"	4/6/2022	0.66	In-Situ	<0.050	<0.300	<10.0	61.3	61.3	22.4	83.7	656
FS #73 @ 8"	4/6/2022	0.66	In-Situ	<0.050	<0.300	<10.0	382	382	255	637	784
FS #74 @ 8"	4/6/2022	0.66	In-Situ	<0.050	<0.300	<10.0	109	109	24.7	134	64.0
FS #75 @ 8"	4/6/2022	0.66	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS #76 @ 8"	4/6/2022	0.66	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FS #77 @ 8"	4/6/2022	0.66	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FS #78 @ 8"	4/6/2022	0.66	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FS #79 @ 8"	4/6/2022	0.66	In-Situ	<0.050	<0.300	<10.0	45.7	45.7	22.0	67.7	48.0
FS #80 @ 8"	4/6/2022	0.66	Excavated	<0.050	<0.300	<50.0	2,040	<b>2,040</b>	382	2,422	544
FS 80 @ 3'	4/12/2022	3	In-Situ	-	-	<10.0	18.6	18.6	<10.0	18.6	-
FS #81 @ 8"	4/6/2022	0.66	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS #82 @ 8"	4/6/2022	0.66	In-Situ	<0.050	<0.300	<10.0	77.5	77.5	26.1	104	112
FS #83 @ 8"	4/6/2022	0.66	Excavated	<0.050	<0.300	<50.0	1,150	<b>1,150</b>	287	1,437	64.0
FS 83 @ 1.5'	4/12/2022	1.5	In-Situ	-	-	<10.0	569	569	166	735	-
FS #84 @ 8"	4/6/2022	0.66	In-Situ	<0.050	<0.300	<10.0	281	281	75.5	357	32.0
FS #85 @ 8"	4/6/2022	0.66	In-Situ	<0.050	<0.300	<10.0	461	461	118	579	112
FS #86 @ 8"	4/6/2022	0.66	Excavated	<0.050	<0.300	<10.0	883	883	197	<b>1,080</b>	128
FS 86 @ 1.5'	4/12/2022	1.5	In-Situ	-	-	<10.0	137	137	27.2	164	-
FS #87 @ 8"	4/6/2022	0.66	In-Situ	<0.050	<0.300	<10.0	98.5	98.5	49.3	148	112
FS #88 @ 8"	4/6/2022	0.66	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS #89 @ 8"	4/6/2022	0.66	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS #90 @ 8"	4/6/2022	0.66	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS 91 @ 8"	4/7/2022	0.66	In-Situ	<0.050	<0.300	<10.0	160	160	28.4	188	64.0
FS 92 @ 8"	4/7/2022	0.66	In-Situ	<0.050	<0.300	11.3	483	494	94.9	589	64.0
FS 93 @ 8"	4/7/2022	0.66	In-Situ	<0.050	0.404	18.0	420	438	81.3	519	80.0
FS 94 @ 8"	4/7/2022	0.66	Excavated	<0.050	<0.300	11.9	1,010	<b>1,020</b>	214	1,236	128
FS 94 @ 2'	4/13/2022	2	In-Situ	-	-	<10.0	189	189	40.3	229	-
FS 95 @ 8"	4/7/2022	0.66	Excavated	<0.050	0.858	81.6	3,200	<b>3,280</b>	694	<b>3,976</b>	400
FS 95 @ 2'	4/13/2022	2	In-Situ	-	-	<10.0	26.7	26.7	12.0	38.7	-
FS 96 @ 8"	4/7/2022	0.66	In-Situ	<0.050	<0.300	<10.0	751	751	198	949	448
FS 97 @ 8"	4/7/2022	0.66	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	14.5	14.5	704
FS 98 @ 8"	4/7/2022	0.66	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	960
FS 99 @ 8"	4/7/2022	0.66	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 100 @ 8"	4/7/2022	0.66	In-Situ	<0.050	<0.300	<10.0	118	118	13.8	132	32.0
FS 101 @ 8"	4/7/2022	0.66	In-Situ	<0.050	<0.300	<10.0	316	316	59.7	376	96.0

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

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

**Table 1**  
**Concentrations of BTEX, TPH & Chloride in Soil**  
**G and C Service**  
**White Federal #1**  
**NMOCD Ref. #: nAPP2208047071**

NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FS 102 @ 8"	4/7/2022	0.66	In-Situ	<0.050	<0.300	<10.0	419	419	93.3	512	112
FS 103 @ 8"	4/7/2022	0.66	In-Situ	<0.050	<0.300	<10.0	779	779	155	934	192
FS 104 @ 8"	4/7/2022	0.66	In-Situ	<0.050	<0.300	<10.0	197	197	46.8	244	144
FS 105 @ 8"	4/7/2022	0.66	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FS 106 @ 8"	4/7/2022	0.66	In-Situ	<0.050	<0.300	<10.0	14.1	14.1	<10.0	14.1	992
FS 107 @ 8"	4/7/2022	0.66	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FS 108 @ 8"	4/7/2022	0.66	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 109 @ 8"	4/7/2022	0.66	In-Situ	<0.050	<0.300	<10.0	240	240	62.5	303	48.0
FS 110 @ 8"	4/7/2022	0.66	Excavated	<0.050	0.808	105	3,390	<b>3,500</b>	717	<b>4,212</b>	96.0
FS 110 @ 2'	4/13/2022	2	In-Situ	-	-	<10.0	106	106	41.6	148	-
FS 111 @ 8"	4/7/2022	0.66	In-Situ	<0.050	<0.300	<10.0	624	624	118	742	128
FS 112 @ 8"	4/7/2022	0.66	Excavated	<0.050	<0.300	11.0	1,340	<b>1,350</b>	279	1,630	272
FS 112 @ 2'	4/13/2022	2	In-Situ	-	-	<10.0	127	127	42.0	169	-
FS 113 @ 8"	4/7/2022	0.66	Excavated	<0.050	<0.300	<10.0	875	875	182	<b>1,057</b>	416
FS 113 @ 2'	4/13/2022	2	In-Situ	-	-	<10.0	44.7	44.7	20.1	64.8	-
FS 114 @ 8"	4/7/2022	0.66	In-Situ	<0.050	<0.300	<10.0	79.1	79.1	12.5	91.6	272
FS 115 @ 8"	4/7/2022	0.66	In-Situ	<0.050	<0.300	<10.0	207	207	78.0	285	144
FS 116 @ 8"	4/7/2022	0.66	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 117 @ 8"	4/7/2022	0.66	In-Situ	<0.050	<0.300	<10.0	644	644	100	744	96.0
FS 118 @ 8"	4/7/2022	0.66	In-Situ	<0.050	<0.300	<10.0	756	756	205	961	464
FS 119 @ 8"	4/7/2022	0.66	Excavated	<0.050	1.36	28.4	1,340	<b>1,370</b>	460	1,828	80.0
FS 119 @ 2'	4/13/2022	2	In-Situ	-	-	<10.0	238	238	53.3	291	-
FS 120 @ 8"	4/7/2022	0.66	Excavated	<0.050	<0.300	<10.0	901	901	234	<b>1,135</b>	<b>1,410</b>
FS 120 @ 2'	4/13/2022	2	In-Situ	-	-	<10.0	659	659	171	830	-
FS 121 @ 8"	4/7/2022	0.66	Excavated	<0.050	0.864	33.0	1,560	<b>1,590</b>	316	1,909	912
FS 121 @ 2'	4/13/2022	2	In-Situ	-	-	<10.0	105	105	43.3	148	-
FS 122 @ 8"	4/7/2022	0.66	In-Situ	<0.050	<0.300	<10.0	215	215	66.8	282	528
FS 123 @ 8"	4/7/2022	0.66	In-Situ	<0.050	<0.300	<10.0	596	596	141	737	1,580
FS 124 @ 8"	4/7/2022	0.66	Excavated	0.0770	0.942	92.1	5,460	<b>5,550</b>	1,150	<b>6,702</b>	3,800
FS 124 @ 2'	4/13/2022	2	In-Situ	-	-	<10.0	232	232	66.1	298	-
FS 125 @ 8"	4/8/2022	0.66	Excavated	<0.050	<0.300	<10.0	1,600	<b>1,600</b>	376	1,976	464
FS 125 @ 1.5'	4/19/2022	1.5	In-Situ	-	-	<10.0	431	431	243	674	-
FS 126 @ 8"	4/8/2022	0.66	In-Situ	<0.050	<0.300	<10.0	706	706	234	940	1,100
FS 127 @ 8"	4/8/2022	0.66	In-Situ	<0.050	<0.300	<10.0	36.0	36.0	14.1	50.1	1,260
FS 128 @ 8"	4/8/2022	0.66	In-Situ	<0.050	<0.300	<10.0	91.9	91.9	104	196	1,250
FS 129 @ 8"	4/8/2022	0.66	Excavated	<0.050	<0.300	<10.0	783	783	276	<b>1,059</b>	<b>2,960</b>
FS 129 @ 1.5'	4/19/2022	1.5	Excavated	-	-	<10.0	1,010	<b>1,010</b>	286	1,296	-
FS 129 @ 2.5'	4/26/2022	2.5	In-Situ	-	-	<10.0	156	156	38.6	195	-
FS 130 @ 8"	4/8/2022	0.66	In-Situ	<0.050	<0.300	<10.0	339	339	150	489	1,170
FS 131 @ 8"	4/8/2022	0.66	Excavated	0.0940	0.773	66.8	4,800	<b>4,870</b>	1,160	<b>6,027</b>	1,170
FS 131 @ 1.5'	4/19/2022	1.5	In-Situ	-	-	<10.0	216	216	49.8	266	-

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.



<b>Table 1</b> <b>Concentrations of BTEX, TPH &amp; Chloride in Soil</b> <b>G and C Service</b> <b>White Federal #1</b> <b>NMOCD Ref. #: nAPP2208047071</b>											
NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FS 132 @ 8"	4/8/2022	0.66	In-Situ	<0.050	<0.300	<10.0	75.8	75.8	30.5	106	800
FS 133 @ 8"	4/8/2022	0.66	In-Situ	<0.050	<0.300	<10.0	373	373	151	524	1,180
FS 134 @ 8"	4/8/2022	0.66	Excavated	<0.050	<0.300	<10.0	663	663	551	1,214	1,960
FS 134 @ 1.5'	4/19/2022	1.5	In-Situ	-	-	<10.0	414	414	156	570	-
FS 135 @ 8"	4/8/2022	0.66	Excavated	<0.050	0.382	<10.0	1,610	1,610	556	2,166	1,500
FS 135 @ 1.5'	4/19/2022	1.5	In-Situ	-	-	<10.0	324	324	81.2	405	-
FS 136 @ 8"	4/8/2022	0.66	In-Situ	<0.050	<0.300	<10.0	25.8	25.8	11.8	37.6	944
FS 137 @ 8"	4/8/2022	0.66	Excavated	<0.050	0.515	25.1	1,800	1,830	453	2,278	432
FS 137 @ 1.5'	4/19/2022	1.5	In-Situ	-	-	<10.0	506	506	156	662	-
FS 138 @ 8"	4/8/2022	0.66	Excavated	<0.050	6.21	284	5,100	5,380	1,010	6,394	1,890
FS 138 @ 1.5'	4/19/2022	1.5	In-Situ	-	-	<10.0	311	311	109	420	-
FS 139 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 140 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	23.0	23.0	<10.0	23.0	48.0
FS 141 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	31.9	31.9	<10.0	31.9	48.0
FS 142 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 143 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	18.4	18.4	<10.0	18.4	64.0
FS 144 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	79.3	79.3	13.0	92.3	32.0
FS 145 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 146 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	68.6	68.6	12.4	81.0	16.0
FS 147 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 148 @ 2'	4/11/2022	2	Excavated	<0.050	<0.300	<10.0	126	126	26.3	152	32.0
FS 148 @ 3'	4/20/2022	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FS 149 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	20.4	20.4	<10.0	20.4	16.0
FS 150 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	23.5	23.5	<10.0	23.5	64.0
FS 151 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	25.1	25.1	<10.0	25.1	32.0
FS 152 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	57.6	57.6	<10.0	57.6	32.0
FS 153 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	14.9	14.9	<10.0	14.9	32.0
FS 154 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	46.1	46.1	25.4	71.5	32.0
FS 155 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS 156 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 157 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	42.7	42.7	13.9	56.6	16.0
FS 158 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	36.8	36.8	13.6	50.4	32.0
FS 159 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	42.8	42.8	<10.0	42.8	16.0
FS 160 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	74.1	74.1	14.2	88.3	32.0
FS 161 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	63.2	63.2	11.9	75.1	32.0
FS 162 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	28.4	28.4	<10.0	28.4	32.0
FS 163 @ 2'	4/11/2022	2	Excavated	<0.050	<0.300	<10.0	78.6	78.6	22.4	101	32.0
FS 163 @ 3'	4/20/2022	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FS 164 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	43.5	43.5	<10.0	43.5	32.0
FS 165 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	47.8	47.8	<10.0	47.8	32.0
FS 166 @ 2'	4/11/2022	2	In-Situ	<0.050	<0.300	<10.0	79.3	79.3	14.2	93.5	32.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

**Table 1**  
**Concentrations of BTEX, TPH & Chloride in Soil**  
**G and C Service**  
**White Federal #1**  
**NMOCD Ref. #: nAPP2208047071**

NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FS 167 @ 2'	4/12/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 168 @ 2'	4/12/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS 169 @ 2'	4/12/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 170 @ 2'	4/12/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS 171 @ 2'	4/12/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 172 @ 2'	4/12/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 173 @ 2'	4/12/2022	2	In-Situ	<0.050	<0.300	<10.0	11.2	11.2	<10.0	11.2	48.0
FS 174 @ 2'	4/12/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS 175 @ 2'	4/12/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 176 @ 2'	4/12/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS 177 @ 2'	4/12/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 178 @ 2'	4/12/2022	2	In-Situ	<0.050	<0.300	<10.0	20.6	20.6	<10.0	20.6	96.0
FS 179 @ 2'	4/12/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 180 @ 2'	4/13/2022	2	Excavated	<0.050	<0.300	<10.0	409	409	118	527	32.0
FS 180 @ 3'	4/20/2022	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FS 181 @ 2'	4/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS 182 @ 2'	4/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FS 183 @ 2'	4/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FS 184 @ 2'	4/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 185 @ 2'	4/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 186 @ 2'	4/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FS 187 @ 2'	4/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FS 188 @ 2'	4/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 189 @ 2'	4/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS 190 @ 2'	4/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FS 191 @ 2'	4/13/2022	2	Excavated	<0.050	<0.300	<10.0	184	184	38.9	223	32.0
FS 191 @ 3'	4/20/2022	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FS 192 @ 2'	4/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FS 193 @ 2'	4/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FS 194 @ 2'	4/13/2022	2	Excavated	<0.050	<0.300	<10.0	234	234	56.0	290	48.0
FS 194 @ 3'	4/20/2022	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FS 195 @ 2'	4/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 196 @ 2'	4/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 197 @ 2'	4/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS 198 @ 2'	4/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FS 199 @ 2'	4/13/2022	2	Excavated	<0.050	<0.300	<10.0	241	241	55.2	296	32.0
FS 199 @ 3'	4/20/2022	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FS 200 @ 2'	4/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS 201 @ 2'	4/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 202 @ 2'	4/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 203 @ 2'	4/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

<b>Table 1</b> <b>Concentrations of BTEX, TPH &amp; Chloride in Soil</b> <b>G and C Service</b> <b>White Federal #1</b> <b>NMOCD Ref. #: nAPP2208047071</b>											
NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FS 204 @ 2'	4/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS 205 @ 2'	4/13/2022	2	Excavated	<0.050	<0.300	<10.0	122	122	15.6	138	32.0
FS 205 @ 3'	4/20/2022	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FS 206 @ 2'	4/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS 207 @ 2'	4/13/2022	2	Excavated	<0.050	<0.300	<10.0	266	266	51.2	317	32.0
FS 207 @ 3'	4/20/2022	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FS 208 @ 2'	4/13/2022	2	In-Situ	<0.050	<0.300	<10.0	30.5	30.5	<10.0	30.5	16.0
FS 209 @ 2'	4/13/2022	2	In-Situ	<0.050	<0.300	<10.0	55.6	55.6	10.7	66.3	96.0
FS 210 @ 2'	4/13/2022	2	In-Situ	<0.050	<0.300	<10.0	52.8	52.8	<10.0	52.8	96.0

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

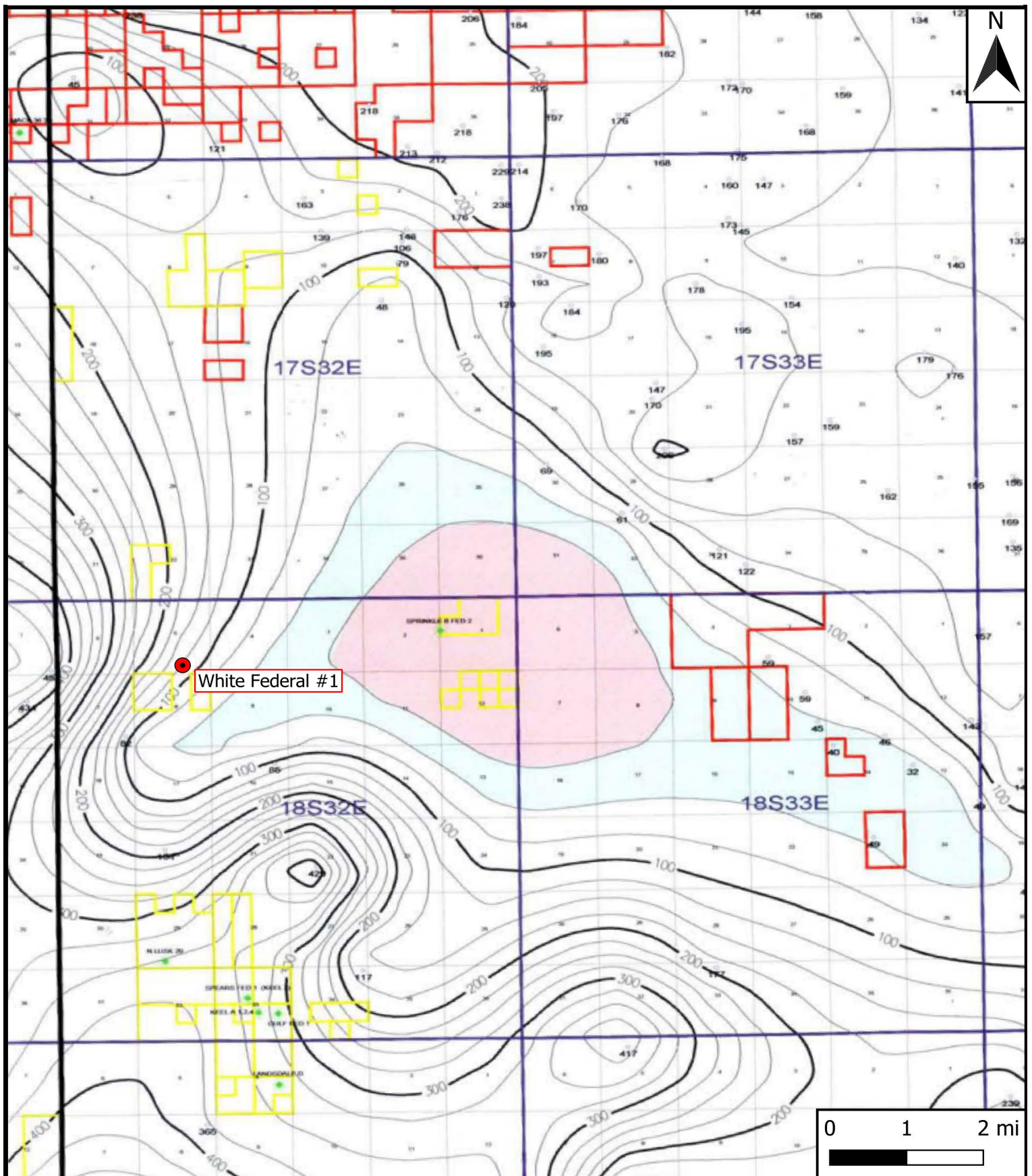
Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.



## **Appendix A**

### **Depth to Groundwater Information**



## Legend

- Site Location

## Figure 4

Inferred Depth to Groundwater Trend Map  
G and C Service  
White Federal #1  
GPS: 32.771109, -103.786204  
Lea County



Revised: bja

Checked: jwl

Date: 5/10/22



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">CP 00814 POD1</a>		CP	LE	2	2	08	18S	32E		614074	3626168*	556	480		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

**Record Count:** 1

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 613683.18

**Northing (Y):** 3626564.39

**Radius:** 804.67

\*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.


3/17/22 10:39 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00814 POD1		2	2	08	18S	32E	614074	3626168* 
<hr/>									
Driller License: 122		Driller Company:				UNKNOWN			
Driller Name:		UNKNOWN, UNKNOWN							
Drill Start Date:		Drill Finish Date:				12/31/1965		Plug Date:	
Log File Date:		PCW Rcv Date:						Source: Shallow	
Pump Type:		Pipe Discharge Size:						Estimated Yield: 8 GPM	
Casing Size: 6.00		Depth Well:				480 feet		Depth Water:	

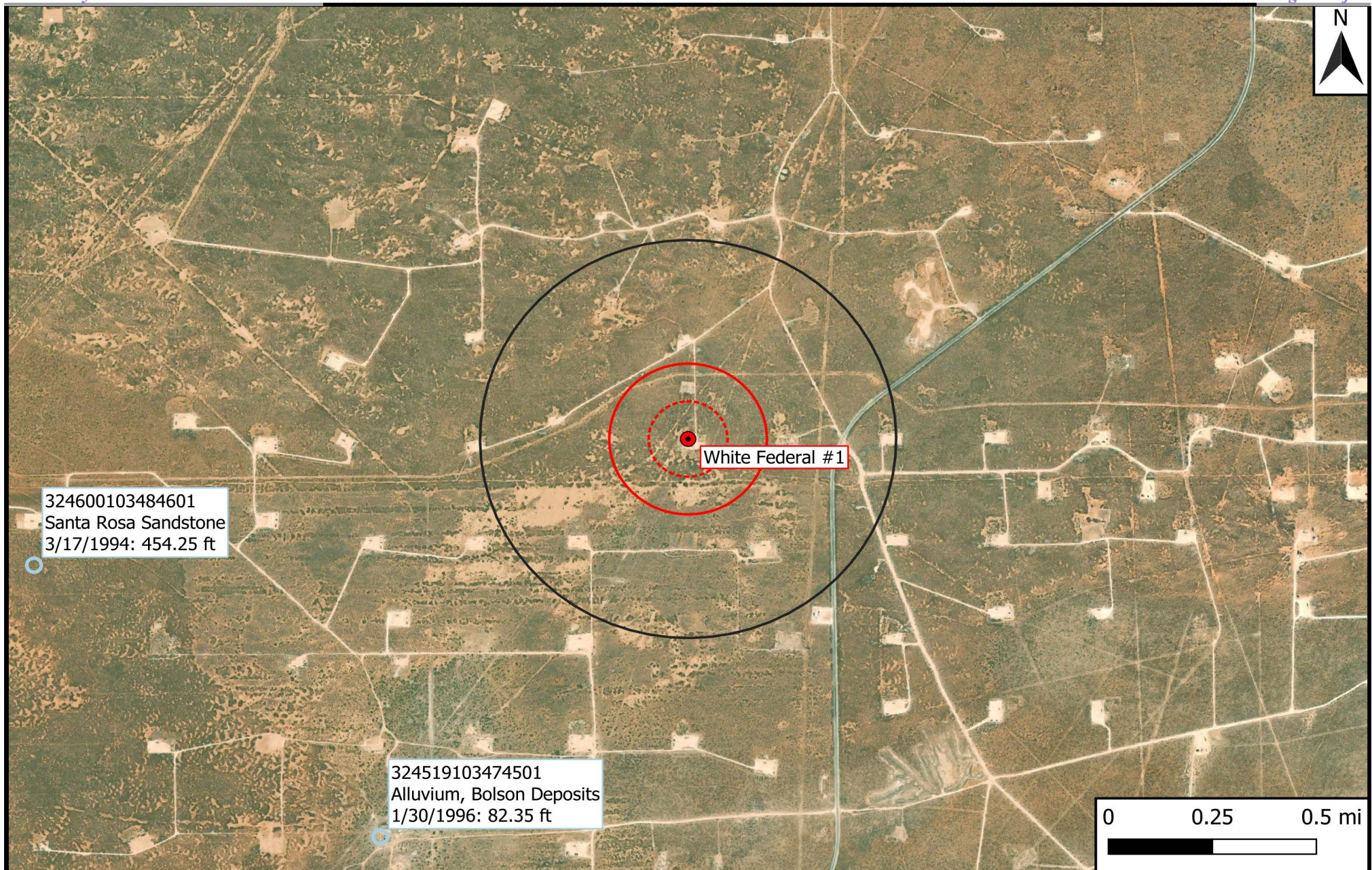
\*UTM location was derived from PLSS - see Help

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.

3/17/22 10:44 AM

POINT OF DIVERSION SUMMARY





## Legend

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

## Figure 5

USGS Well Proximity Map  
G and C Service  
White Federal #1  
GPS: 32.771109, -103.786204  
Lea County



Drafted: bja

Checked: jwl

Date: 5/10/22





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## National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater

Geographic Area:

United States

GO



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Groundwater levels for the Nation



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

### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 324519103474501

Minimum number of levels = 1

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

### USGS 324519103474501 18S.32E.07.44233

Lea County, New Mexico

Latitude 32°45'24", Longitude 103°47'55" NAD27

Land-surface elevation 3,759.00 feet above NGVD29

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

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[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
1976-05-26		D	72019	80.80			1	Z			A
1981-03-12		D	72019	82.19			1	Z			A
1986-03-25		D	72019	81.50			1	Z			A
1991-05-14		D	72019	82.47			1	Z			A
1996-01-30		D	72019	82.35			1	S			A

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

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Page Last Modified: 2022-06-15 13:20:17 EDT

0.29 0.24 nadww01



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Data Category:

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Geographic Area:

United States

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

### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 324600103484601

Minimum number of levels = 1

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

### USGS 324600103484601 18S.31E.01.44432

Eddy County, New Mexico

Latitude 32°46'00", Longitude 103°48'46" NAD27

Land-surface elevation 3,790 feet above NAVD88

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

This well is completed in the Santa Rosa Sandstone (231SNRS) 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
1971-04-07		D	72019	460.42			P	Z			A
1976-05-27		D	72019	454.56			1	Z			A
1986-01-26		D	72019	454.29			1	S			A
1990-09-25		D	72019	453.62			1	S			A
1994-03-17		D	72019	454.25			1	S			A



Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
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: 2022-06-15 13:21:37 EDT

0.29 0.24 nadww01

## **Appendix B**

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



## Sample Log

Date: 3-22-22

Project: White Federal 1

Project Number: 15286

Latitude: 32.771109

Longitude: -103.786204

Sample ID	PH/Odor	Chloride Conc. 4-11-22	Chloride Conc.
WW1 Right 25'	Light odor	216	FS20e2' - N/A
WW1 Left 25'	-	116	FS21e2' - N/A
WW2 Right 25'	-	216	FS23e2' - N/A
WW2 Left 25'	-	216	FS24e2' - N/A
WW3 Right 25'	-	136	FS25e2' - N/A
WW3 Left 25'	-	136	FS49e1 1/2' - N/A
WW4 Right 25'	-	116	FS56e1 1/2' - N/A
WW4 Left 25'	-	160	FS57e1 1/2' - N/A
SW1 Right 25'	-	188	SW3B - N/A
SW1 Left 25'	Strong	188	FS139e2' - N/A
SW2 Right 25'	-	160	FS140e2' - N/A
SW2 Left 25'	-	<116	FS141e2' - N/A
FS1e6'	mild	352	FS142e2' - N/A
FS2e2'	-	<116	FS143e2' - N/A
EW1	-	136	FS144e2' - N/A
EW2	-	136	FS145e2' - N/A
FS3e2'	-	280	FS146e2' - N/A
FS4e2'	-	160	FS147e2' - N/A
FS5e2'	-	136	FS148e2' - N/A
FS6e2'	-	244	FS149e2' - N/A
FS7e2'	-	116	FS150e2' - N/A
FS8e2'	-	116	FS151e2' - N/A
WW5	mild	136	FS152e2' - N/A
EW3	mild	136	FS153e2' - N/A
EW4	-	116	FS154e2' - N/A
EW5	-	ND	FS155e2' - N/A
EW6	Light	ND	FS156e2' - N/A
EW7	-	ND	FS157e2' - N/A
NW1	-	ND	FS158e2' - N/A
WW6	Light	260	FS159e2' - N/A
WW7	-	148	FS160e2' - N/A
WW8	-	ND	FS161e2' - N/A
WW9	-	172	FS162e2' - N/A
SW3	Light	148	FS163e2' - N/A
SW4	-	172	FS164e2' - N/A
FS9. (A) 3Ft	-	172	FS165e2' - N/A

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas

Walls 50' under 600 chloride

pad 20,000  
pasture 600 Fnd 4'210  
Total  
Close

# Sample Log

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

Project: White Federal 1

Project Number: 15286

Latitude: 32.771109

Longitude: -103.786204

Sample ID	PID/Odor	Chloride Conc. 4'-11'-22'	GPS
FS 10. ④ 3Ft	-	148	FS 166e2' - N/A
FS 11. ④ 3Ft	-	172	FS 167e2' - N/A
FS 12. ④ 3Ft	Light	ND	FS 168e2' - N/A
FS 13. ④ 6Ft	-	172	FS 168e2' - N/A
FS 14. ④ 6Ft	medium	148	FS 169e2' - N/A
FS 15. ④ 2Ft	Sweet	ND	FS 170e2' - N/A
FS 16. ④ 2Ft	-	148	FS 171e2' - N/A
FS 17. ④ 2Ft	Light Salty	148	FS 172e2' - N/A
FS 18. ④ 2Ft	-	316	FS 173e2' - N/A
FS 19. ④ 2Ft	Light	160	FS 174e2' - N/A
FS 20. ④ 2Ft	-	136	FS 175e2' - N/A
FS 21. ④ 2Ft	-	280	FS 176e2' - N/A
FS 22. ④ 2Ft	-	ND	FS 177e2' - N/A
FS 23. ④ 2Ft	Salty	160	FS 178e2' - N/A
FS 24. ④ 2Ft	-	316	FS 179e2' - N/A
FS. 25. ④ 2Ft	-	352	FS 180e2' - N/A
FS. 26. ④ 3Ft	-	188	FS 181e2' - N/A
NW # 2	-	200	FS 182e2' - N/A
FS # 27 ④ 1Ft	-	<del>148</del> 200	FS 183e2' - N/A
FS # 28 ④ 1Ft	-	148	FS 184e2' - N/A
FS # 29 ④ 1Ft	-	148	FS 185e2' - N/A
FS # 30 ④ 1Ft	Light	292	FS 186e2' - N/A
FS # 31 ④ 1Ft	-	364	FS 187e2' - N/A
FS # 32 ④ 8 inches	-	364	FS 188e2' - N/A
FS # 33 ④ 8 inches	Salty	364	FS 189e2' - N/A
FS # 34 ④ 1Ft	Light	292	FS 190e2' - N/A
FS # 35 ④ 1Ft	medium	260	FS 191e2' - N/A
FS # 36 ④	-	128	FS 192e2' - N/A
FS # 37 ④	Light	200	FS 193e2' - N/A
FS # 38 ④	-	148	FS 194e2' - N/A
FS # 39 ④	-	492	FS 195e2' - N/A
FS # 40 ④	-	772	FS 196e2' - N/A
FS # 41 ④	-	200	FS 197e2' - N/A
FS # 42 ④	-	148	FS 198e2' - N/A
FS # 43 ④	-	148	FS 199e2' - N/A
FS # 44 ④	-	200	FS 200e2' - N/A

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas



only TPH

FS 18 e2

19 e1' TPH

20 e1' TPH

21 e1' TPH

23 e1' TPH

24 e1' TPH

25 e1' TPH

## Sample Log

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

Project: White Federal 1

Project Number: 15286

Latitude: 32.771109

Longitude: -103.786204

Sample ID	PID/Odor	Chloride Conc.	Rego	GPS
FS#45 @ 8 in	—	708		NW2
FS#46 @ 8 in	—	772		FS26e3'
FS#47 @ 8 in	—	324		27e1'
FS#48 @ 8 in	—	148		28e1'
FS#49 @ 8 in	Light	200		29e1'
FS#50 @ 8 in	—	324		
FS#51 @ 8 in	—	492	FS201e2'	N/A
FS#52 @ 8 in	Light	324	FS202e2'	N/A
FS#53 @ 8 in	medium	128	FS203e2'	N/A
FS#54 @ 8 in	—	492	FS204e2'	N/A
FS#55 @ 8 in	—	908	FS205e2'	N/A
FS#56 @ 8 in	mild	984	FS206e2'	N/A
FS#57 @ 8 in	Light	1324	FS207e2'	N/A
FS#58 @ 8 in	Light	492	FS208e2'	N/A
FS#59 @ 8 in	Light	ND	FS209e2'	N/A
FS#60 @ 8 in	Medium	292	FS210e2'	N/A
FS61e8 in.	—	<116		
FS62e8 in.	—	<116		
FS63e8 in.	—	316		
FS64e8 in.	—	188		
FS65e8 in.	—	1692		
FS66e8 in.	—	2584		
FS67e8 in.	—	1692		
FS68e8 in.	mild	900		
FS69e8 in.	—	900		
FS70e8 in.	—	160		
FS71e8 in.	—	160		
FS72e8 in.	—	832		
FS73e8 in.	—	1044		
FS74e8 in.	mild	316		
FS75e8 in.	—	116		
FS76e8 in.	—	116		
FS77e8 in.	—	136		
FS78e8 in.	—	160		
FS79e8 in.	—	136		
FS80e8 in.	Strong	648		

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

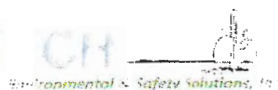
Refusal = SP #1 @ 4'-R

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: White Federal 1

Project Number: 15286

Latitude: 32.771109

Longitude: -103.786204

Sample ID	PH/Odor	Chloride Conc.	GPS
FS81e8in.	—	188	
FS82e8in.	Slight	216	
FS83e8in.	—	<116	
FS84e8in.	—	116	
FS85e8in.	—	136	
FS86e8in.	—	160	
FS87e8in.	—	<116	
FS88e8in.	—	216	
FS89e8in.	—	<116	
FS90e8in.	—	<116	
FS91e8in.	—	<116	
FS92e8in.	Slight	160	
FS93e8in.	—	216	
FS94e8in.	Slight	160	
FS95e8in.	Slight	704	
FS96e8in.	—	704	
FS97e8in.	—	900	
FS98e8in.	—	900	
FS99e8in.	—	<116	
FS100e8in.	—	136	
FS101e8in.	Slight	216	
FS102e8in.	—	316	
FS103e8in.	—	280	
FS104e8in.	—	188	
FS105e8in.	—	216	
FS106e8in.	—	1124	
FS107e8in.	—	394	
FS108e8in.	—	160	
FS109e8in.	—	244	
FS110e8in.	mid	352	
FS111e8in.	—	316	
FS112e8in.	mid	352	
FS113e8in.	—	440	
FS114e8in.	—	352	
FS115e8in.	—	<116	
FS116e8in.	—	160	

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 @ SW or SW #1B

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Start WW 10 on Pod  
EW 8 on pod



# Sample Log

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

Project: White Federal 1

Project Number: 15286

Latitude: 32.7711 09

Longitude: -103.786204

Sample ID	PH/Odor	Chloride Conc.	GPS
FS117e8in.	—	536	
FS118e8in.	—	768	
FS119e8in.	—	244	
FS120e8in.	—	1480	
FS121e8in.	—	900	
FS122e8in.	—	592	
FS123e8in.	—	1480	
FS124e8in.	—	2856	
FS125e8in.	—	592	
FS126e8in.	—	1384	
FS127e8in.	—	1480	
FS128e8in.	—	1124	
FS129e8in.	—	3076	
FS130e8in.	—	1480	
FS131e8in.	—	1124	
FS132e8in.	—	1124	
FS133e8in.	—	1292	
FS134e8in.	—	1692	
FS135e8in.	—	1692	
FS136e8in.	—	900	
FS137e8in.	—	396	
FS138e8in.	—	1940	
WW10	—	244	
WW11	—	<116	
WW12	—	136	
WW13	—	188	
EW8	—	280	
EW9	—	7392	
NW2	—	<116	
NW3	—	136	
EW10	—	4524	
EW11	—	1480	
EW12	—	536	
FS15e4'	—	N/A	4-11-22
FS18e3'	—	N/A	
FS19e2'	—	N/A	

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



# Soil Profile

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

Project: White Federal 1

Project Number: 15286 Latitude: 32.771109 Longitude: -103.786204

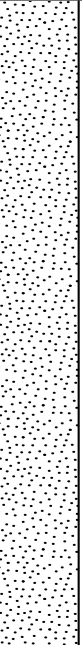

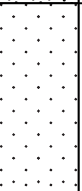

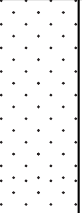
Depth (ft. bgs)

Description

1	
2	Very little caliche' ss
3	Very sandy 2" ↓
4	
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9	
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40	



## Soil Boring/Temporary Monitor Well BH-1


<b>Company:</b> G and C Service <b>Site:</b> White Federal #1 <b>NMOCD Reference #:</b> nAPP2208047071 <b>Location:</b> Lea Co., NM <b>PLSS:</b> UL "O" (SW/SE), Sec. 5, T18S, R32E			<b>Well/Borehole ID:</b> BH-1 <b>Coordinates (NAD 83):</b> 32.771030,-103.785702 <b>Drilling Date:</b> 4/1/2022 <b>Depth of Boring (ft):</b> 105 <b>Depth to Groundwater (ft):</b> N/A <b>Plugging Date:</b> 4/5/2022			<b>Drilling Company:</b> Ready Drill, Inc. <b>Driller:</b> Gary Shull <b>Drilling Method:</b> Auger <b>Logged By:</b> Gary Shull <b>Drafted By:</b> B. Arguijo <b>Draft Date:</b> 6/15/2022		
<b>Completion:</b> N/A			<b>Casing:</b> N/A			<b>Screen:</b> N/A		
<b>Comments:</b> Borehole advanced on east side of production pad, approximately 140 feet northeast of wellhead.								
Depth (ft)	Groundwater	Lithology	Material Description	Chloride Field Test	Petroleum Odor	Petroleum Stain	Well Construction	
5			Red dirt	-	-	-		Open hole. No casing installed.
10				-	-	-		
15				-	-	-		
20				-	-	-		
25				-	-	-		
30				-	-	-		
35				-	-	-		
40				-	-	-		
45				-	-	-		
50				-	-	-		
55				-	-	-		
60				-	-	-		
65			Soft sandstone	-	-	-		
70				-	-	-		
75				-	-	-		
80				-	-	-		
85			Rock	-	-	-		
90				-	-	-		
95			Sandstone	-	-	-		
100				-	-	-		
105				-	-	-		
110				-	-	-		
115				-	-	-		
			<b>Notes:</b> • Lines between material types represent approximate boundaries. Actual transitions may be gradual. • The exploratory soil boring was left open for over 72 hours. No indications of inflow and/or accumulation of water were noted during the advancement of the soil boring.					

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

## **Appendix C**

### **Photographic Log**


## Photographic Log

<b>Photo Number:</b> 1	 <p>4/11/2022, 4:33 PM 32.770639,-103.786254</p>
<b>Photo Direction:</b> Overhead/Bird's Eye	
<b>Photo Description:</b>  Aerial view of the affected area (outlined in blue-green).	

<b>Photo Number:</b> 2	 <p>3/23/22 2:57 PM 32.770639,-103.786254 ±5.00m 136 SE</p>
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b>  View of the excavated area in the pasture.	




## Photographic Log


<b>Photo Number:</b> 3	
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the excavated area in the pasture.	

<b>Photo Number:</b> 4	
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the excavated area in the pasture.	




## Photographic Log


<b>Photo Number:</b> 5	
<b>Photo Direction:</b> Southwest	
<b>Photo Description:</b>  View of the excavated area in the pasture.	

<b>Photo Number:</b> 6	
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the excavated area in the pasture.	




## Photographic Log

<b>Photo Number:</b> 7	
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the excavated area in the pasture.	

<b>Photo Number:</b> 8	
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b>  View of the excavated area in the pasture.	




## Photographic Log

<b>Photo Number:</b> 9	<div>Network: Apr 5, 2022 at 1:25:06 PM MDT Local: Apr 5, 2022 at 1:25:06 PM MDT N 32° 46' 15.200", W 103° 47' 9.491" Hobbs NM 88240 United States</div> 
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the excavated area on the production pad.	

<b>Photo Number:</b> 10	<div>Network: Apr 5, 2022 at 3:05:15 PM MDT Local: Apr 5, 2022 at 3:05:15 PM MDT N 32° 46' 15.407", W 103° 47' 9.490" Hobbs NM 88240 United States</div> 
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the excavated area on the production pad.	




## Photographic Log


<b>Photo Number:</b> 11	 <p>May 4, 2022 at 10:02 AM +32.771144,-103.786232</p>
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of the remediated area after backfilling and regrading.	

<b>Photo Number:</b> 12	 <p>May 4, 2022 at 10:00 AM +32.771097,-103.786025</p>
<b>Photo Direction:</b> North-northeast	
<b>Photo Description:</b>  View of the remediated area after backfilling and regrading.	




## Photographic Log

<b>Photo Number:</b> 13	<div>May 6, 2022 at 12:47 PM +32.770776,-103.786174</div> 
<b>Photo Direction:</b> Southwest	
<b>Photo Description:</b>  View of the remediated area after backfilling and regrading.	

<b>Photo Number:</b> 14	<div>May 6, 2022 at 12:47 PM +32.770776,-103.786174</div> 
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the remediated area after backfilling and regrading.	




## Photographic Log

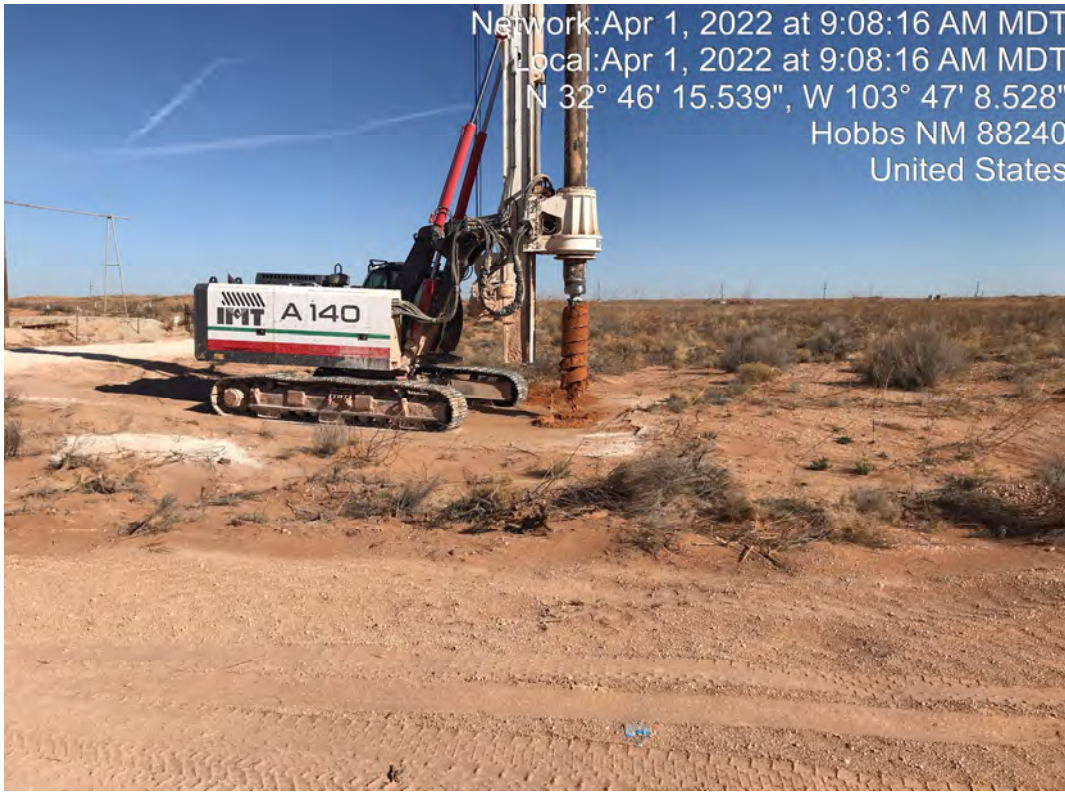
<b>Photo Number:</b> 15	 <p>May 6, 2022 at 12:47 PM +32.770776,-103.786174</p>
<b>Photo Direction:</b> North-northwest	
<b>Photo Description:</b>  View of the remediated area after backfilling and regrading.	

<b>Photo Number:</b> 16	 <p>May 6, 2022 at 12:47 PM +32.770776,-103.786174</p>
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of the remediated area after backfilling and regrading.	



## Photographic Log

<b>Photo Number:</b> 17	 <p>May 6, 2022 at 12:48 PM +32.770980,-103.786219</p>
<b>Photo Direction:</b> Northeast	
<b>Photo Description:</b>  View of the remediated area after backfilling and regrading.	

<b>Photo Number:</b> 18	 <p>Network: Apr 1, 2022 at 9:08:16 AM MDT Local: Apr 1, 2022 at 9:08:16 AM MDT N 32° 46' 15.539", W 103° 47' 8.528" Hobbs NM 88240 United States</p>
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of the advancement of borehole BH-1.	

## **Appendix D**

### **Laboratory Analytical Reports**





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

---

March 28, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WHITE FEDERAL 1

Enclosed are the results of analyses for samples received by the laboratory on 03/23/22 16:21.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/23/2022  
 Reported: 03/28/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/23/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 1 (H221146-01)**

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2022	ND	1.93	96.3	2.00	13.3	
Toluene*	<0.050	0.050	03/25/2022	ND	2.13	107	2.00	13.3	
Ethylbenzene*	<0.050	0.050	03/25/2022	ND	2.22	111	2.00	13.1	
Total Xylenes*	<0.150	0.150	03/25/2022	ND	6.90	115	6.00	13.0	
Total BTEx	<0.300	0.300	03/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	03/25/2022	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	03/25/2022	ND	210	105	200	2.80	
DRO >C10-C28*	<10.0	10.0	03/25/2022	ND	217	109	200	3.17	
EXT DRO >C28-C36	<10.0	10.0	03/25/2022	ND					

Surrogate: 1-Chlorooctane 86.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.3 % 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: 03/23/2022  
 Reported: 03/28/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/23/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 2 (H221146-02)**

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2022	ND	1.93	96.3	2.00	13.3	
Toluene*	<0.050	0.050	03/25/2022	ND	2.13	107	2.00	13.3	
Ethylbenzene*	<0.050	0.050	03/25/2022	ND	2.22	111	2.00	13.1	
Total Xylenes*	<0.150	0.150	03/25/2022	ND	6.90	115	6.00	13.0	
Total BTEx	<0.300	0.300	03/25/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/25/2022	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	03/25/2022	ND	210	105	200	2.80	
DRO >C10-C28*	<10.0	10.0	03/25/2022	ND	217	109	200	3.17	
EXT DRO >C28-C36	<10.0	10.0	03/25/2022	ND					

Surrogate: 1-Chlorooctane 82.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.8 % 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: 03/23/2022  
 Reported: 03/28/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/23/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 3 (H221146-03)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2022	ND	1.87	93.7	2.00	0.292	
Toluene*	<0.050	0.050	03/26/2022	ND	2.06	103	2.00	1.01	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.15	107	2.00	0.840	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.67	111	6.00	0.535	
Total BTX	<0.300	0.300	03/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/25/2022	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	03/25/2022	ND	210	105	200	2.80	
DRO >C10-C28*	25.3	10.0	03/25/2022	ND	217	109	200	3.17	
EXT DRO >C28-C36	<10.0	10.0	03/25/2022	ND					

Surrogate: 1-Chlorooctane 84.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.8 % 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: 03/23/2022  
 Reported: 03/28/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/23/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 4 (H221146-04)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2022	ND	1.87	93.7	2.00	0.292	
Toluene*	<0.050	0.050	03/26/2022	ND	2.06	103	2.00	1.01	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.15	107	2.00	0.840	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.67	111	6.00	0.535	
Total BTX	<0.300	0.300	03/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/25/2022	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	03/25/2022	ND	210	105	200	2.80	
DRO >C10-C28*	<10.0	10.0	03/25/2022	ND	217	109	200	3.17	
EXT DRO >C28-C36	<10.0	10.0	03/25/2022	ND					

Surrogate: 1-Chlorooctane 83.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.7 % 59.5-142

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**Analytical Results For:**

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

Received: 03/23/2022  
 Reported: 03/28/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/23/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 1 (H221146-05)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2022	ND	1.87	93.7	2.00	0.292	
Toluene*	<0.050	0.050	03/26/2022	ND	2.06	103	2.00	1.01	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.15	107	2.00	0.840	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.67	111	6.00	0.535	
Total BTX	<0.300	0.300	03/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/25/2022	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	03/25/2022	ND	210	105	200	2.80	
DRO >C10-C28*	<10.0	10.0	03/25/2022	ND	217	109	200	3.17	
EXT DRO >C28-C36	<10.0	10.0	03/25/2022	ND					

Surrogate: 1-Chlorooctane 81.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.6 % 59.5-142

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**Analytical Results For:**

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

Received: 03/23/2022  
 Reported: 03/28/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/23/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 2 (H221146-06)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2022	ND	1.87	93.7	2.00	0.292	
Toluene*	<0.050	0.050	03/26/2022	ND	2.06	103	2.00	1.01	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.15	107	2.00	0.840	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.67	111	6.00	0.535	
Total BTX	<0.300	0.300	03/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/25/2022	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	03/25/2022	ND	210	105	200	2.80	
DRO >C10-C28*	<10.0	10.0	03/25/2022	ND	217	109	200	3.17	
EXT DRO >C28-C36	<10.0	10.0	03/25/2022	ND					

Surrogate: 1-Chlorooctane 83.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.9 % 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: 03/23/2022  
 Reported: 03/28/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/23/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 1 @ 6' (H221146-07)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2022	ND	1.87	93.7	2.00	0.292	
Toluene*	<0.050	0.050	03/26/2022	ND	2.06	103	2.00	1.01	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.15	107	2.00	0.840	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.67	111	6.00	0.535	
Total BTX	<0.300	0.300	03/26/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/25/2022	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	03/25/2022	ND	210	105	200	2.80	
DRO >C10-C28*	181	10.0	03/25/2022	ND	217	109	200	3.17	
EXT DRO >C28-C36	32.4	10.0	03/25/2022	ND					

Surrogate: 1-Chlorooctane 81.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.3 % 59.5-142

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/23/2022  
 Reported: 03/28/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/23/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 2 @ 2' (H221146-08)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2022	ND	1.87	93.7	2.00	0.292	
Toluene*	<0.050	0.050	03/26/2022	ND	2.06	103	2.00	1.01	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.15	107	2.00	0.840	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.67	111	6.00	0.535	
Total BTX	<0.300	0.300	03/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/25/2022	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	03/25/2022	ND	210	105	200	2.80	
DRO >C10-C28*	<10.0	10.0	03/25/2022	ND	217	109	200	3.17	
EXT DRO >C28-C36	<10.0	10.0	03/25/2022	ND					

Surrogate: 1-Chlorooctane 80.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.1 % 59.5-142

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**Analytical Results For:**

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

Received: 03/23/2022  
 Reported: 03/28/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/23/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 1 (H221146-09)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2022	ND	1.87	93.7	2.00	0.292		
Toluene*	<0.050	0.050	03/26/2022	ND	2.06	103	2.00	1.01		
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.15	107	2.00	0.840		
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.67	111	6.00	0.535		
Total BTX	<0.300	0.300	03/26/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/25/2022	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	03/25/2022	ND	210	105	200	2.80	
DRO >C10-C28*	<10.0	10.0	03/25/2022	ND	217	109	200	3.17	
EXT DRO >C28-C36	<10.0	10.0	03/25/2022	ND					

Surrogate: 1-Chlorooctane 85.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.6 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/23/2022  
 Reported: 03/28/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/23/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 2 (H221146-10)**

BTX 8021B			mg/kg							
			Analyzed By: MS\							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2022	ND	1.87	93.7	2.00	0.292		
Toluene*	<0.050	0.050	03/26/2022	ND	2.06	103	2.00	1.01		
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.15	107	2.00	0.840		
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.67	111	6.00	0.535		
Total BTX	<0.300	0.300	03/26/2022	ND						

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

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/25/2022	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	03/25/2022	ND	210	105	200	2.80		
DRO >C10-C28*	<10.0	10.0	03/25/2022	ND	217	109	200	3.17		
EXT DRO >C28-C36	<10.0	10.0	03/25/2022	ND						

Surrogate: 1-Chlorooctane 82.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.1 % 59.5-142

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---

### Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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

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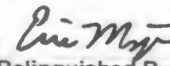

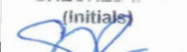
Celey D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 7/13/2022 9:54:08 AM

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc. <b>Project Manager:</b> Lance Crenshaw <b>Address:</b> P.O. Box 301 <b>City:</b> Lovington Hobbs <b>State:</b> NM <b>Zip:</b> 88240 <b>Phone #:</b> (575) 396-2378 <b>Fax #:</b> (575) 396-1429 <b>Project #:</b> 15286 <b>Project Owner:</b> Robbie Ruane <b>Project Name:</b> White Federal 1 <b>Project Location:</b> Mowbourn Oil Company <b>Sampler Name:</b> Eric Mojica				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>															
				<b>P.O. #:</b> <b>Company:</b> Mowbourn <b>Attn:</b> Robbie Ruane <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>																			
FOR LAB USE ONLY				MATRIX				PRESERV.		SAMPLING		Chloride TPH (8015M) BTEX (8021B)											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / GEL												
H221146																							
1	WW1	C	1			✓				✓			3-23-22										
2	WW2	C	1			✓				✓													
3	WW3	C	1			✓				✓													
4	WW4	C	1			✓				✓													
5	SW1	C	1			✓				✓													
6	SW2	C	1			✓				✓													
7	FS10g	C	1			✓				✓													
8	FS2ed	C	1			✓				✓													
9	EW1	C	1			✓				✓													
10	EW2	C	1			✓				✓													
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<b>Relinquished By:</b>  <b>Relinquished By:</b>				<b>Date:</b> 3-23-22 <b>Time:</b> 11:21 <b>Received By:</b>  <b>Received By:</b>				<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b> <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Fax #:</b> <b>REMARKS:</b>															
<b>Delivered By:</b> (Circle One) 9.32 C-0.52 <b>Sampler - UPS - Bus - Other:</b> 18.82				<b>Sample Condition</b> Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No				<b>CHECKED BY:</b> (Initials) 															
Please email results to pm@etechenv.com.																							

FORM-006  
Revision 1.0

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



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March 29, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WHITE FEDERAL 1

Enclosed are the results of analyses for samples received by the laboratory on 03/24/22 15:48.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 3 @ 2' (H221169-01)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2022	ND	1.85	92.6	2.00	12.1	
Toluene*	<0.050	0.050	03/26/2022	ND	2.09	105	2.00	12.2	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.12	106	2.00	12.8	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.63	111	6.00	13.7	
Total BTEx	<0.300	0.300	03/26/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	182	91.1	200	1.47	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	179	89.3	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 96.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 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: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 4 @ 2' (H221169-02)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2022	ND	1.85	92.6	2.00	12.1	
Toluene*	<0.050	0.050	03/26/2022	ND	2.09	105	2.00	12.2	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.12	106	2.00	12.8	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.63	111	6.00	13.7	
Total BTEx	<0.300	0.300	03/26/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/28/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	182	91.1	200	1.47	
DRO >C10-C28*	20.3	10.0	03/28/2022	ND	179	89.3	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 123 % 66.9-136

Surrogate: 1-Chlorooctadecane 128 % 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: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 5 @ 2' (H221169-03)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2022	ND	1.85	92.5	2.00	9.40	
Toluene*	<0.050	0.050	03/26/2022	ND	2.07	103	2.00	8.87	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.18	109	2.00	8.72	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.81	113	6.00	8.82	
Total BTX	<0.300	0.300	03/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/28/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	182	91.1	200	1.47	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	179	89.3	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 89.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 6 @ 2' (H221169-04)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2022	ND	1.85	92.5	2.00	9.40	
Toluene*	<0.050	0.050	03/26/2022	ND	2.07	103	2.00	8.87	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.18	109	2.00	8.72	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.81	113	6.00	8.82	
Total BTX	<0.300	0.300	03/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/28/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	182	91.1	200	1.47	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	179	89.3	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 7 @ 2' (H221169-05)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2022	ND	1.85	92.5	2.00	9.40	
Toluene*	<0.050	0.050	03/26/2022	ND	2.07	103	2.00	8.87	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.18	109	2.00	8.72	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.81	113	6.00	8.82	
Total BTX	<0.300	0.300	03/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/28/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	182	91.1	200	1.47	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	179	89.3	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 88.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.3 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 8 @ 2' (H221169-06)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2022	ND	1.85	92.5	2.00	9.40	
Toluene*	<0.050	0.050	03/26/2022	ND	2.07	103	2.00	8.87	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.18	109	2.00	8.72	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.81	113	6.00	8.82	
Total BTX	<0.300	0.300	03/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/28/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	182	91.1	200	1.47	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	179	89.3	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 91.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.3 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 5 (H221169-07)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2022	ND	1.85	92.5	2.00	9.40		
Toluene*	<0.050	0.050	03/26/2022	ND	2.07	103	2.00	8.87		
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.18	109	2.00	8.72		
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.81	113	6.00	8.82		
Total BTEX	<0.300	0.300	03/26/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/28/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	182	91.1	200	1.47	
<b>DRO &gt;C10-C28*</b>	<b>30.1</b>	10.0	03/28/2022	ND	179	89.3	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 124 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 3 (H221169-08)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2022	ND	1.85	92.5	2.00	9.40		
Toluene*	<0.050	0.050	03/26/2022	ND	2.07	103	2.00	8.87		
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.18	109	2.00	8.72		
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.81	113	6.00	8.82		
Total BTEx	<0.300	0.300	03/26/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/28/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	182	91.1	200	1.47	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	179	89.3	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 96.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 100 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 4 (H221169-09)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2022	ND	1.85	92.5	2.00	9.40		
Toluene*	<0.050	0.050	03/26/2022	ND	2.07	103	2.00	8.87		
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.18	109	2.00	8.72		
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.81	113	6.00	8.82		
Total BTEx	<0.300	0.300	03/26/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/28/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	182	91.1	200	1.47	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	179	89.3	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 87.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.2 % 59.5-142

Cardinal Laboratories

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

---

Celey D. Keene, Lab Director/Quality Manager





No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

Company Name: Etech Environmental &amp; Safety Solutions, Inc.

Project Manager: Lance Crenshaw

Address: P.O. Box 301

City: ~~Livingston~~ HobbsState: NM Zip: ~~88200~~ 88240

Phone #: (575) 396-2378

Fax #: (575) 396-1429

Project #: 15286

Project Owner: Robbie Runnels

Project Name: White Federal 1

Project Location: Mewbourne Oil Company

Sampler Name: Eric Mojica

## BILL TO

## ANALYSIS REQUEST

P.O. #:

Company: Mewbourne

Attn: Robbie Runnels

Address:

City:

State: Zip:

Phone #:

Fax #:

Chloride

TPH (8015M)

BTEX (8021B)

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

3-24-22

#281169

1 FS3e2  
2 FS4e2  
3 FS5e2  
4 FS6e2  
5 FS7e2  
6 FS8e2  
7 WW5  
8 EW3  
9 EW4

C C C C C C C C C

1 1 1 1 1 1 1 1 1

✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓

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✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓

✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓

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Relinquished By:

Eric Mojica

Date:

3-24-22

Time:

5:18

Received By:

Shadrigny

Date:

Time:

Relinquished By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

388 C-0.58  
3.38 #113

Sample Condition

Cool Intact  
☐ Yes ☒ No

CHECKED BY:

(Initials)  
SR

Phone Result:

Fax Result:

REMARKS:

☐ Yes ☐ No☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

Please email results to pm@etechenv.com.



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

---

March 31, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WHITE FEDERAL 1

Enclosed are the results of analyses for samples received by the laboratory on 03/28/22 16:35.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/28/2022  
 Reported: 03/31/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 001  
 Project Location: MEWBOURNE

Sampling Date: 03/28/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 9 @ 3' (H221231-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2022	ND	2.01	100	2.00	6.96	
Toluene*	<0.050	0.050	03/31/2022	ND	2.00	99.9	2.00	7.58	
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	1.90	95.1	2.00	6.88	
Total Xylenes*	<0.150	0.150	03/31/2022	ND	5.90	98.4	6.00	6.99	
Total BTX	<0.300	0.300	03/31/2022	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	96.0	16.0	03/31/2022	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	03/30/2022	ND	211	106	200	9.62	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	236	118	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 96.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/28/2022  
 Reported: 03/31/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 001  
 Project Location: MEWBOURNE

Sampling Date: 03/28/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 10 @ 3' (H221231-02)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2022	ND	2.01	100	2.00	6.96		
Toluene*	<0.050	0.050	03/31/2022	ND	2.00	99.9	2.00	7.58		
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	1.90	95.1	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/31/2022	ND	5.90	98.4	6.00	6.99		
Total BTX	<0.300	0.300	03/31/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/31/2022	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	03/30/2022	ND	211	106	200	9.62	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	236	118	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 86.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.0 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 03/28/2022  
 Reported: 03/31/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 001  
 Project Location: MEWBOURNE

Sampling Date: 03/28/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 11 @ 3' (H221231-03)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2022	ND	2.01	100	2.00	6.96		
Toluene*	<0.050	0.050	03/31/2022	ND	2.00	99.9	2.00	7.58		
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	1.90	95.1	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/31/2022	ND	5.90	98.4	6.00	6.99		
Total BTEX	<0.300	0.300	03/31/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/31/2022	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	03/30/2022	ND	211	106	200	9.62	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	236	118	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.8 % 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: 03/28/2022  
 Reported: 03/31/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 001  
 Project Location: MEWBOURNE

Sampling Date: 03/28/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 12 @ 3' (H221231-04)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2022	ND	2.01	100	2.00	6.96		
Toluene*	<0.050	0.050	03/31/2022	ND	2.00	99.9	2.00	7.58		
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	1.90	95.1	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/31/2022	ND	5.90	98.4	6.00	6.99		
Total BTEx	<0.300	0.300	03/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	03/31/2022	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	03/30/2022	ND	211	106	200	9.62	
DRO >C10-C28*	32.0	10.0	03/30/2022	ND	236	118	200	5.04	
EXT DRO >C28-C36	16.4	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 88.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.1 % 59.5-142

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/28/2022  
 Reported: 03/31/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 001  
 Project Location: MEWBOURNE

Sampling Date: 03/28/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 13 @ 6' (H221231-05)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2022	ND	2.01	100	2.00	6.96		
Toluene*	<0.050	0.050	03/31/2022	ND	2.00	99.9	2.00	7.58		
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	1.90	95.1	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/31/2022	ND	5.90	98.4	6.00	6.99		
Total BTEx	<0.300	0.300	03/31/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/31/2022	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	03/30/2022	ND	211	106	200	9.62	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	236	118	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.2 % 59.5-142

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**Analytical Results For:**

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 Fax To:

Received: 03/28/2022  
 Reported: 03/31/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 001  
 Project Location: MEWBOURNE

Sampling Date: 03/28/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 14 @ 6' (H221231-06)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2022	ND	2.01	100	2.00	6.96		
Toluene*	<0.050	0.050	03/31/2022	ND	2.00	99.9	2.00	7.58		
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	1.90	95.1	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/31/2022	ND	5.90	98.4	6.00	6.99		
Total BTEx	<0.300	0.300	03/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	03/31/2022	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	03/30/2022	ND	211	106	200	9.62	
DRO >C10-C28*	49.8	10.0	03/30/2022	ND	236	118	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 90.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.3 % 59.5-142

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 HOBBS NM, 88240  
 Fax To:

Received: 03/28/2022  
 Reported: 03/31/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 001  
 Project Location: MEWBOURNE

Sampling Date: 03/28/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 15 @ 2' (H221231-07)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2022	ND	2.01	100	2.00	6.96		
Toluene*	<0.050	0.050	03/31/2022	ND	2.00	99.9	2.00	7.58		
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	1.90	95.1	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/31/2022	ND	5.90	98.4	6.00	6.99		
Total BTEx	<0.300	0.300	03/31/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/31/2022	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	03/31/2022	ND	211	106	200	9.62	
DRO >C10-C28*	69.8	10.0	03/31/2022	ND	236	118	200	5.04	
EXT DRO >C28-C36	54.6	10.0	03/31/2022	ND					

Surrogate: 1-Chlorooctane 85.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.1 % 59.5-142

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/28/2022  
 Reported: 03/31/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 001  
 Project Location: MEWBOURNE

Sampling Date: 03/28/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 16 @ 2' (H221231-08)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2022	ND	2.01	100	2.00	6.96		
Toluene*	<0.050	0.050	03/31/2022	ND	2.00	99.9	2.00	7.58		
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	1.90	95.1	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/31/2022	ND	5.90	98.4	6.00	6.99		
Total BTEX	<0.300	0.300	03/31/2022	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	112	16.0	03/31/2022	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	03/30/2022	ND	187	93.7	200	0.175	
DRO >C10-C28*	28.1	10.0	03/30/2022	ND	185	92.4	200	0.925	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 89.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.6 % 59.5-142

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/28/2022  
 Reported: 03/31/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 001  
 Project Location: MEWBOURNE

Sampling Date: 03/28/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 17 @ 2' (H221231-09)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2022	ND	2.01	100	2.00	6.96		
Toluene*	<0.050	0.050	03/31/2022	ND	2.00	99.9	2.00	7.58		
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	1.90	95.1	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/31/2022	ND	5.90	98.4	6.00	6.99		
Total BTX	<0.300	0.300	03/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	03/31/2022	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	03/30/2022	ND	187	93.7	200	0.175	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	185	92.4	200	0.925	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 94.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.9 % 59.5-142

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/28/2022  
 Reported: 03/31/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 001  
 Project Location: MEWBOURNE

Sampling Date: 03/28/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: NW # 1 (H221231-10)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2022	ND	2.01	100	2.00	6.96		
Toluene*	<0.050	0.050	03/31/2022	ND	2.00	99.9	2.00	7.58		
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	1.90	95.1	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/31/2022	ND	5.90	98.4	6.00	6.99		
Total BTX	<0.300	0.300	03/31/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/31/2022	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	03/30/2022	ND	187	93.7	200	0.175	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	185	92.4	200	0.925	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 93.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.0 % 59.5-142

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/28/2022  
 Reported: 03/31/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 001  
 Project Location: MEWBOURNE

Sampling Date: 03/28/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SW # 3 (H221231-11)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2022	ND	2.01	100	2.00	6.96		
Toluene*	<0.050	0.050	03/31/2022	ND	2.00	99.9	2.00	7.58		
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	1.90	95.1	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/31/2022	ND	5.90	98.4	6.00	6.99		
Total BTEx	<0.300	0.300	03/31/2022	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	112	16.0	03/31/2022	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	03/30/2022	ND	187	93.7	200	0.175	
DRO >C10-C28*	196	10.0	03/30/2022	ND	185	92.4	200	0.925	
EXT DRO >C28-C36	115	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 96.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/28/2022  
 Reported: 03/31/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 001  
 Project Location: MEWBOURNE

Sampling Date: 03/28/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SW # 4 (H221231-12)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2022	ND	2.01	100	2.00	6.96		
Toluene*	<0.050	0.050	03/31/2022	ND	2.00	99.9	2.00	7.58		
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	1.90	95.1	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/31/2022	ND	5.90	98.4	6.00	6.99		
Total BTEx	<0.300	0.300	03/31/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/31/2022	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	03/30/2022	ND	187	93.7	200	0.175	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	185	92.4	200	0.925	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 91.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/28/2022  
 Reported: 03/31/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 001  
 Project Location: MEWBOURNE

Sampling Date: 03/28/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: WW # 6 (H221231-13)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2022	ND	2.01	100	2.00	6.96	
Toluene*	<0.050	0.050	03/31/2022	ND	2.00	99.9	2.00	7.58	
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	1.90	95.1	2.00	6.88	
Total Xylenes*	<0.150	0.150	03/31/2022	ND	5.90	98.4	6.00	6.99	
Total BTX	<0.300	0.300	03/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	03/31/2022	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	03/30/2022	ND	187	93.7	200	0.175	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	185	92.4	200	0.925	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 92.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/28/2022  
 Reported: 03/31/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 001  
 Project Location: MEWBOURNE

Sampling Date: 03/28/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: WW # 7 (H221231-14)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2022	ND	2.01	100	2.00	6.96	
Toluene*	<0.050	0.050	03/31/2022	ND	2.00	99.9	2.00	7.58	
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	1.90	95.1	2.00	6.88	
Total Xylenes*	<0.150	0.150	03/31/2022	ND	5.90	98.4	6.00	6.99	
Total BTX	<0.300	0.300	03/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	03/31/2022	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	03/30/2022	ND	187	93.7	200	0.175	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	185	92.4	200	0.925	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 98.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 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: 03/28/2022  
 Reported: 03/31/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 001  
 Project Location: MEWBOURNE

Sampling Date: 03/28/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: WW # 8 (H221231-15)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/31/2022	ND	2.01	100	2.00	6.96		
Toluene*	<0.050	0.050	03/31/2022	ND	2.00	99.9	2.00	7.58		
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	1.90	95.1	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/31/2022	ND	5.90	98.4	6.00	6.99		
Total BTEX	<0.300	0.300	03/31/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/31/2022	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	03/30/2022	ND	187	93.7	200	0.175	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	185	92.4	200	0.925	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 97.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 100 % 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: 03/28/2022  
 Reported: 03/31/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 001  
 Project Location: MEWBOURNE

Sampling Date: 03/28/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: WW # 9 (H221231-16)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/30/2022	ND	2.00	99.8	2.00	8.23	
Toluene*	<0.050	0.050	03/30/2022	ND	1.97	98.4	2.00	8.56	
Ethylbenzene*	<0.050	0.050	03/30/2022	ND	1.97	98.5	2.00	7.99	
Total Xylenes*	<0.150	0.150	03/30/2022	ND	6.10	102	6.00	8.11	
Total BTX	<0.300	0.300	03/30/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/31/2022	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	03/30/2022	ND	187	93.7	200	0.175	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	185	92.4	200	0.925	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 90.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.0 % 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: 03/28/2022  
 Reported: 03/31/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 001  
 Project Location: MEWBOURNE

Sampling Date: 03/28/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: EW # 5 (H221231-17)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2022	ND	2.00	99.8	2.00	8.23		
Toluene*	<0.050	0.050	03/30/2022	ND	1.97	98.4	2.00	8.56		
Ethylbenzene*	<0.050	0.050	03/30/2022	ND	1.97	98.5	2.00	7.99		
Total Xylenes*	<0.150	0.150	03/30/2022	ND	6.10	102	6.00	8.11		
Total BTX	<0.300	0.300	03/30/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/31/2022	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	03/30/2022	ND	187	93.7	200	0.175	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	185	92.4	200	0.925	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 92.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.3 % 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: 03/28/2022  
 Reported: 03/31/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 001  
 Project Location: MEWBOURNE

Sampling Date: 03/28/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: EW # 6 (H221231-18)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2022	ND	2.00	99.8	2.00	8.23		
Toluene*	<0.050	0.050	03/30/2022	ND	1.97	98.4	2.00	8.56		
Ethylbenzene*	<0.050	0.050	03/30/2022	ND	1.97	98.5	2.00	7.99		
Total Xylenes*	<0.150	0.150	03/30/2022	ND	6.10	102	6.00	8.11		
Total BTEx	<0.300	0.300	03/30/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/31/2022	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	03/30/2022	ND	187	93.7	200	0.175	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	185	92.4	200	0.925	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 90.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 03/28/2022  
 Reported: 03/31/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 001  
 Project Location: MEWBOURNE

Sampling Date: 03/28/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: EW # 7 (H221231-19)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2022	ND	2.00	99.8	2.00	8.23		
Toluene*	<0.050	0.050	03/30/2022	ND	1.97	98.4	2.00	8.56		
Ethylbenzene*	<0.050	0.050	03/30/2022	ND	1.97	98.5	2.00	7.99		
Total Xylenes*	<0.150	0.150	03/30/2022	ND	6.10	102	6.00	8.11		
Total BTEX	<0.300	0.300	03/30/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/31/2022	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	03/30/2022	ND	187	93.7	200	0.175	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	185	92.4	200	0.925	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					

Surrogate: 1-Chlorooctane 77.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.7 % 59.5-142

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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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\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager

## 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: Lange Crenshaw

Address: 2617 West Marland

City: Hobbs State: NM Zip: 88240

Phone #: (575) 264-9884 Fax #:

Project #: 001 Project Owner:

Project Name: White Federal #1.

Project Location:

Sampler Name: Aaron Rios

BILL TO

P.O. #:

Company Newbourne

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Chloride

TPH (8015M)

BTEX (8021B)

FOR LAB USE ONLY

Lab I.D. H221231

Sample I.D.

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

MATRIX

PRESERV.

SAMPLING

DATE

TIME

1 FS #9. 3 Ft

2 FS #10. 3 Ft

3 FS #11. 3 Ft

4 FS #12. 3 Ft

5 FS #13. 6 Ft

6 FS #14. 6 Ft

7 FS #15. 2 Ft

8 FS #16. 2 Ft

9 FS #17. 2 Ft

10 NW #1.

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Relinquished By: Aaron Rios

Date: 3-28-22

Time: 1635

Received By: Tamara Elda Kye

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

29.5°C C-0.5c

29.0°C #113

Sample Condition

Cool Intact

Yes Yes

No No

CHECKED BY: TO.

Phone Result: Yes No

Fax Result: Yes No

REMARKS:

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



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

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

Page 23 of 23

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>											
Address: 2617 W Marland				Company: Newbourne															
City: Hobbs		State: NM		Zip: 88240		Attn:													
Phone #: (575) 264-9884		Fax #:		Address:		City:													
Project #: 001		Project Owner:		State:		Zip:													
Project Name: White Federal #1				Phone #:															
Project Location:				Fax #:															
Sampler Name: Arvon RioS																			
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	DATE	TIME					
4221231																			
11	SW #3.	X			X								3-28-22		X X ✓				
12	SW #4.	X			X										X X X				
13	WW #6.	X			X										X X X				
14	WW #7.	X			X										X X X				
15	WW #8.	X			X										X X X				
16	WW #9.	X			X										X X X				
17	EW #5.	X			X										X X X				
18	EW #6.	X			X										X X X				
19	EW #7.	X			X										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:		Date: 3-28-22		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		REMARKS:  Please email results and copy of CoC to pm@etechenv.com.									
Relinquished By:		Time: 1635		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:											
Relinquished By:		Time:		Received By:															
Delivered By: (Circle One) 29.5° C-0.5°				Sample Condition				CHECKED BY:											
Sampler - UPS - Bus - Other: 29.0° #113				Cool Intact				(Initials)											
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No											

FORM-006  
Revision 1.0

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





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

---

April 06, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WHITE FEDERAL 1

Enclosed are the results of analyses for samples received by the laboratory on 03/31/22 16:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". 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: 03/31/2022  
 Reported: 04/06/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/31/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 18 @ 2' (H221303-01)**

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	04/04/2022	ND	2.16	108	2.00	10.6		
Toluene*	<0.050	0.050	04/04/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	04/04/2022	ND	2.04	102	2.00	11.4		
Total Xylenes*	<0.150	0.150	04/04/2022	ND	6.36	106	6.00	11.0		
Total BTEX	<0.300	0.300	04/04/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/05/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2022	ND	166	83.2	200	6.59	
DRO >C10-C28*	332	10.0	04/04/2022	ND	157	78.6	200	12.8	
EXT DRO >C28-C36	62.2	10.0	04/04/2022	ND					

Surrogate: 1-Chlorooctane 89.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 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: 03/31/2022  
 Reported: 04/06/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/31/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 19 @ 1' (H221303-02)**

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	04/04/2022	ND	2.16	108	2.00	10.6		
Toluene*	<0.050	0.050	04/04/2022	ND	2.13	106	2.00	11.1		
Ethylbenzene*	<0.050	0.050	04/04/2022	ND	2.04	102	2.00	11.4		
Total Xylenes*	<0.150	0.150	04/04/2022	ND	6.36	106	6.00	11.0		
Total BTEX	<0.300	0.300	04/04/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/05/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2022	ND	166	83.2	200	6.59	
DRO >C10-C28*	461	10.0	04/04/2022	ND	157	78.6	200	12.8	
EXT DRO >C28-C36	122	10.0	04/04/2022	ND					

Surrogate: 1-Chlorooctane 84.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.7 % 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: 03/31/2022  
 Reported: 04/06/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/31/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 20 @ 1' (H221303-03)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2022	ND	2.16	108	2.00	10.6	
Toluene*	<0.050	0.050	04/04/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	04/04/2022	ND	2.04	102	2.00	11.4	
Total Xylenes*	<0.150	0.150	04/04/2022	ND	6.36	106	6.00	11.0	
Total BTX	<0.300	0.300	04/04/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/05/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2022	ND	166	83.2	200	6.59	
DRO >C10-C28*	399	10.0	04/04/2022	ND	157	78.6	200	12.8	
EXT DRO >C28-C36	116	10.0	04/04/2022	ND					

Surrogate: 1-Chlorooctane 87.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 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: 03/31/2022  
 Reported: 04/06/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/31/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 21 @ 1' (H221303-04)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2022	ND	2.16	108	2.00	10.6	
Toluene*	<0.050	0.050	04/04/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	04/04/2022	ND	2.04	102	2.00	11.4	
Total Xylenes*	<0.150	0.150	04/04/2022	ND	6.36	106	6.00	11.0	
Total BTX	<0.300	0.300	04/04/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/05/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2022	ND	166	83.2	200	6.59	
DRO >C10-C28*	306	10.0	04/04/2022	ND	157	78.6	200	12.8	
EXT DRO >C28-C36	77.4	10.0	04/04/2022	ND					

Surrogate: 1-Chlorooctane 83.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.2 % 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: 03/31/2022  
 Reported: 04/06/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/31/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 22 @ 1' (H221303-05)**

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	04/04/2022	ND	2.16	108	2.00	10.6	
Toluene*	<0.050	0.050	04/04/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	04/04/2022	ND	2.04	102	2.00	11.4	
Total Xylenes*	<0.150	0.150	04/04/2022	ND	6.36	106	6.00	11.0	
Total BTEX	<0.300	0.300	04/04/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/05/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2022	ND	166	83.2	200	6.59	
DRO >C10-C28*	21.9	10.0	04/04/2022	ND	157	78.6	200	12.8	
EXT DRO >C28-C36	15.1	10.0	04/04/2022	ND					

Surrogate: 1-Chlorooctane 86.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.3 % 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: 03/31/2022  
 Reported: 04/06/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/31/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 23 @ 1' (H221303-06)**

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	04/04/2022	ND	2.16	108	2.00	10.6	
Toluene*	<0.050	0.050	04/04/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	04/04/2022	ND	2.04	102	2.00	11.4	
Total Xylenes*	<0.150	0.150	04/04/2022	ND	6.36	106	6.00	11.0	
Total BTEx	<0.300	0.300	04/04/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/05/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2022	ND	166	83.2	200	6.59	
DRO >C10-C28*	384	10.0	04/04/2022	ND	157	78.6	200	12.8	
EXT DRO >C28-C36	110	10.0	04/04/2022	ND					

Surrogate: 1-Chlorooctane 90.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/31/2022  
 Reported: 04/06/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/31/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 24 @ 1' (H221303-07)**

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	04/04/2022	ND	2.16	108	2.00	10.6	
Toluene*	<0.050	0.050	04/04/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	04/04/2022	ND	2.04	102	2.00	11.4	
Total Xylenes*	<0.150	0.150	04/04/2022	ND	6.36	106	6.00	11.0	
Total BTEx	<0.300	0.300	04/04/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/05/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2022	ND	224	112	200	6.18	
DRO >C10-C28*	463	10.0	04/05/2022	ND	201	101	200	6.29	QM-07
EXT DRO >C28-C36	130	10.0	04/05/2022	ND					

Surrogate: 1-Chlorooctane 84.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.9 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 03/31/2022  
 Reported: 04/06/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/31/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 25 @ 1' (H221303-08)**

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	04/04/2022	ND	2.16	108	2.00	10.6	
Toluene*	<0.050	0.050	04/04/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	04/04/2022	ND	2.04	102	2.00	11.4	
Total Xylenes*	<0.150	0.150	04/04/2022	ND	6.36	106	6.00	11.0	
Total BTEx	<0.300	0.300	04/04/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/05/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2022	ND	224	112	200	6.18	
DRO >C10-C28*	199	10.0	04/05/2022	ND	201	101	200	6.29	
EXT DRO >C28-C36	66.6	10.0	04/05/2022	ND					

Surrogate: 1-Chlorooctane 76.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.2 % 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: 03/31/2022  
 Reported: 04/06/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 03/31/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 15 @ 3' (H221303-09)**

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2022	ND	224	112	200	6.18	
<b>DRO &gt;C10-C28*</b>	<b>419</b>	10.0	04/05/2022	ND	201	101	200	6.29	
<b>EXT DRO &gt;C28-C36</b>	<b>120</b>	10.0	04/05/2022	ND					
Surrogate: 1-Chlorooctane	84.1 %	66.9-136							
Surrogate: 1-Chlorooctadecane	104 %	59.5-142							

**Sample ID: SW 3 A (H221303-10)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2022	ND	224	112	200	6.18	
DRO >C10-C28*	267	10.0	04/05/2022	ND	201	101	200	6.29	
EXT DRO >C28-C36	68.6	10.0	04/05/2022	ND					
Surrogate: 1-Chlorooctane	80.1 %	66.9-136							
Surrogate: 1-Chlorooctadecane	102 %	59.5-142							

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

---

Celey D. Keene, Lab Director/Quality Manager



No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 12 of 12

## CARDINAL LABORATORIES

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

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

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																																									
Project Manager: <u>Lance Crenshaw</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																																									
Address: 2617 W Marland				Company: <u>Mewbourne</u>																																													
City: Hobbs		State: NM		Zip: 88240		Attn: <u>Robbie Ruane</u>																																											
Phone #: (575) 264-9884		Fax #:		Address:		City:																																											
Project #: <u>15286</u>		Project Owner: <u>Robbie Ruane</u>		State:		Zip:																																											
Project Name: <u>White Federal #1</u>				Phone #:																																													
Project Location: <u>Mewbourne Oil Company</u>				Fax #:																																													
Sampler Name: <u>Eric Mojica</u>																																																	
FOR LAB USE ONLY																																																	
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING																																					
								GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME																					
<u>#221303</u>																																																	
<u>1</u>		<u>FS18e2'</u>		<u>C</u>		<u>X</u>						<u>X</u>														<u>3-31-22</u>						<u>X</u>		<u>X</u>		<u>X</u>													
<u>2</u>		<u>FS19e1'</u>		<u>C</u>		<u>X</u>						<u>X</u>																				<u>X</u>		<u>X</u>		<u>X</u>													
<u>3</u>		<u>FS20e1'</u>		<u>C</u>		<u>X</u>						<u>X</u>																				<u>X</u>		<u>X</u>		<u>X</u>													
<u>4</u>		<u>FS21e1'</u>		<u>C</u>		<u>X</u>						<u>X</u>																				<u>X</u>		<u>X</u>		<u>X</u>													
<u>5</u>		<u>FS22e1'</u>		<u>C</u>		<u>X</u>						<u>X</u>																				<u>X</u>		<u>X</u>		<u>X</u>													
<u>6</u>		<u>FS23e1'</u>		<u>C</u>		<u>X</u>						<u>X</u>																				<u>X</u>		<u>X</u>		<u>X</u>													
<u>7</u>		<u>FS24e1'</u>		<u>C</u>		<u>X</u>						<u>X</u>																				<u>X</u>		<u>X</u>		<u>X</u>													
<u>8</u>		<u>FS25e1'</u>		<u>C</u>		<u>X</u>						<u>X</u>																				<u>X</u>		<u>X</u>		<u>X</u>													
<u>9</u>		<u>FS15e3'</u>		<u>C</u>		<u>X</u>						<u>X</u>																				<u>X</u>		<u>X</u>		<u>X</u>													
<u>10</u>		<u>SW3A</u>		<u>C</u>		<u>X</u>						<u>X</u>																				<u>X</u>		<u>X</u>		<u>X</u>													
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Relinquished By: <u>Eric Mojica</u>				Date: <u>3-31-22</u>		Received By: <u>Monica Rodriguez</u>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:				REMARKS:																							
Relinquished By:				Time: <u>1615</u>		Received By:				REMARKS:																																							
				Date:																																													
				Time:																																													
Delivered By: (Circle One) <u>11.8e C-0.5e</u>				Sample Condition				CHECKED BY:				Please email results and copy of CoC to pm@etechenv.com.																																					
Sampler - UPS - Bus - Other: <u>11.3e #13</u>				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				(Initials) <u>VO</u>																																									





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---

April 06, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WHITE FEDERAL 1

Enclosed are the results of analyses for samples received by the laboratory on 04/01/22 16:32.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/01/2022  
 Reported: 04/06/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/01/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NW #2 (H221320-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2022	ND	2.07	104	2.00	1.93	
Toluene*	<0.050	0.050	04/05/2022	ND	2.03	102	2.00	2.51	
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	1.93	96.6	2.00	2.64	
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.03	100	6.00	2.70	
Total BTX	<0.300	0.300	04/05/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/05/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2022	ND	182	91.0	200	2.44	
DRO >C10-C28*	107	10.0	04/04/2022	ND	169	84.4	200	2.13	
EXT DRO >C28-C36	29.7	10.0	04/04/2022	ND					

Surrogate: 1-Chlorooctane 81.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.8 % 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: 04/01/2022  
 Reported: 04/06/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/01/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 26 @ 3' (H221320-02)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2022	ND	2.07	104	2.00	1.93	
Toluene*	<0.050	0.050	04/05/2022	ND	2.03	102	2.00	2.51	
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	1.93	96.6	2.00	2.64	
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.03	100	6.00	2.70	
Total BTX	<0.300	0.300	04/05/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/05/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2022	ND	182	91.0	200	2.44	
DRO >C10-C28*	314	10.0	04/04/2022	ND	169	84.4	200	2.13	
EXT DRO >C28-C36	97.4	10.0	04/04/2022	ND					

Surrogate: 1-Chlorooctane 79.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.4 % 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: 04/01/2022  
 Reported: 04/06/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/01/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 27 @ 1' (H221320-03)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2022	ND	2.07	104	2.00	1.93	
Toluene*	<0.050	0.050	04/05/2022	ND	2.03	102	2.00	2.51	
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	1.93	96.6	2.00	2.64	
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.03	100	6.00	2.70	
Total BTX	<0.300	0.300	04/05/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/05/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2022	ND	182	91.0	200	2.44	
DRO >C10-C28*	197	10.0	04/04/2022	ND	169	84.4	200	2.13	
EXT DRO >C28-C36	46.6	10.0	04/04/2022	ND					

Surrogate: 1-Chlorooctane 83.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.6 % 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: 04/01/2022  
 Reported: 04/06/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/01/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 28 @ 1' (H221320-04)**

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	04/05/2022	ND	2.07	104	2.00	1.93	
Toluene*	<0.050	0.050	04/05/2022	ND	2.03	102	2.00	2.51	
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	1.93	96.6	2.00	2.64	
<b>Total Xylenes*</b>	<b>0.188</b>	0.150	04/05/2022	ND	6.03	100	6.00	2.70	
Total BTEx	<0.300	0.300	04/05/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/05/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2022	ND	180	89.9	200	2.41	
DRO >C10-C28*	135	10.0	04/04/2022	ND	174	87.2	200	2.20	
EXT DRO >C28-C36	43.0	10.0	04/04/2022	ND					

Surrogate: 1-Chlorooctane 81.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.8 % 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: 04/01/2022  
 Reported: 04/06/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/01/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 29 @ 1' (H221320-05)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2022	ND	2.07	104	2.00	1.93	
Toluene*	<0.050	0.050	04/05/2022	ND	2.03	102	2.00	2.51	
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	1.93	96.6	2.00	2.64	
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.03	100	6.00	2.70	
Total BTX	<0.300	0.300	04/05/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/05/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2022	ND	180	89.9	200	2.41	
DRO >C10-C28*	117	10.0	04/04/2022	ND	174	87.2	200	2.20	
EXT DRO >C28-C36	42.6	10.0	04/04/2022	ND					

Surrogate: 1-Chlorooctane 85.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.2 % 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: 04/01/2022  
 Reported: 04/06/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/01/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 30 @ 1' (H221320-06)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2022	ND	2.07	104	2.00	1.93	
Toluene*	<0.050	0.050	04/05/2022	ND	2.03	102	2.00	2.51	
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	1.93	96.6	2.00	2.64	
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.03	100	6.00	2.70	
Total BTX	<0.300	0.300	04/05/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/05/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2022	ND	180	89.9	200	2.41	
DRO >C10-C28*	50.4	10.0	04/04/2022	ND	174	87.2	200	2.20	
EXT DRO >C28-C36	26.5	10.0	04/04/2022	ND					

Surrogate: 1-Chlorooctane 81.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.2 % 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: 04/01/2022  
 Reported: 04/06/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/01/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 31 @ 1' (H221320-07)**

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	04/05/2022	ND	2.07	104	2.00	1.93	
Toluene*	<0.050	0.050	04/05/2022	ND	2.03	102	2.00	2.51	
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	1.93	96.6	2.00	2.64	
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.03	100	6.00	2.70	
Total BTEX	<0.300	0.300	04/05/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/05/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2022	ND	180	89.9	200	2.41	
DRO >C10-C28*	11.1	10.0	04/04/2022	ND	174	87.2	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	04/04/2022	ND					

Surrogate: 1-Chlorooctane 76.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 04/01/2022  
 Reported: 04/06/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/01/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 32 @ 8" (H221320-08)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2022	ND	2.07	104	2.00	1.93	
Toluene*	<0.050	0.050	04/05/2022	ND	2.03	102	2.00	2.51	
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	1.93	96.6	2.00	2.64	
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.03	100	6.00	2.70	
Total BTX	<0.300	0.300	04/05/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	04/05/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2022	ND	180	89.9	200	2.41	
DRO >C10-C28*	12.4	10.0	04/04/2022	ND	174	87.2	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	04/04/2022	ND					

Surrogate: 1-Chlorooctane 81.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/01/2022  
 Reported: 04/06/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/01/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 33 @ 8" (H221320-09)**

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	04/05/2022	ND	2.07	104	2.00	1.93	
Toluene*	<0.050	0.050	04/05/2022	ND	2.03	102	2.00	2.51	
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	1.93	96.6	2.00	2.64	
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.03	100	6.00	2.70	
Total BTEx	<0.300	0.300	04/05/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/05/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2022	ND	180	89.9	200	2.41	
DRO >C10-C28*	124	10.0	04/04/2022	ND	174	87.2	200	2.20	
EXT DRO >C28-C36	42.9	10.0	04/04/2022	ND					

Surrogate: 1-Chlorooctane 73.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/01/2022  
 Reported: 04/06/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/01/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 34 @ 1' (H221320-10)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2022	ND	2.07	104	2.00	1.93	
Toluene*	<0.050	0.050	04/05/2022	ND	2.03	102	2.00	2.51	
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	1.93	96.6	2.00	2.64	
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.03	100	6.00	2.70	
Total BTX	<0.300	0.300	04/05/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/05/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2022	ND	180	89.9	200	2.41	
DRO >C10-C28*	57.0	10.0	04/04/2022	ND	174	87.2	200	2.20	
EXT DRO >C28-C36	19.5	10.0	04/04/2022	ND					

Surrogate: 1-Chlorooctane 71.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.3 % 59.5-142

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

---

Celey D. Keene, Lab Director/Quality Manager





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

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

Company Name: Etech Environmental and Safety Solutions, Inc.										<b>BILL TO</b>										<b>ANALYSIS REQUEST</b>																																																											
Project Manager: <i>Lance Crenshaw</i>										P.O. #:										<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																																																											
Address: 2617 W Marland <i>AR 4-1-22</i>										Company <i>Mewbourne</i>																																																																					
City: Hobbs State: NM Zip: 88240										Attn: <i>Robbie</i>																																																																					
Phone #: (575) 264-9884 Fax #:										Address:																																																																					
Project #:										Project Owner:																																																																					
Project Name: <i>White Federal #1</i>										City:																																																																					
Project Location:										State: Zip:																																																																					
Sampler Name: <i>Aaron Kios</i>										Phone #: Fax #:																																																																					
FOR LAB USE ONLY										MATRIX										PRESERV.										SAMPLING																																																	
Lab I.D.										Sample I.D.										(GRAB OR (C)OMP. # CONTAINERS										GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:										ACID/BASE: ICE / COOL OTHER:										DATE TIME																													
<i>H221320</i>																																																																															
<i>1 NW # 2</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>4-1-22</i>										<i>X</i>										<i>X</i>										<i>X</i>									
<i>2 FS # 26 @ 3 Ft</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>									
<i>3 FS # 27 @ 1 Ft</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>									
<i>4 FS # 28 @ 1 Ft</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>									
<i>5 FS # 29 @ 1 Ft</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>									
<i>6 FS # 30 @ 1 Ft</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>									
<i>7 FS # 31 @ 1 Ft</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>									
<i>8 AR 4-1-22 FS # 32 @ 8 inches</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>									
<i>9 AR 4-1-22 FS # 33 @ 8 inches</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>									
<i>FS # 34 @ 1 Ft</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>										<i>X</i>									

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Relinquished By: <i>Aaron Kios</i>		Date: <i>4-1-22</i>		Received By: <i>Rodriguez</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: <i>1632</i>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:			
		Time:				Please email results and copy of CoC to pm@etechenv.com.			
Delivered By: (Circle One)		2.88 C-0.58		Sample Condition		CHECKED BY: (Initials):			
Sampler - UPS - Bus - Other:		2.38 #113		<input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		<i>82</i>			



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April 07, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WHITE FEDERAL 1

Enclosed are the results of analyses for samples received by the laboratory on 04/04/22 16:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/04/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/04/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS #35 @ 1' (H221334-01)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2022	ND	2.18	109	2.00	6.87	
Toluene*	<0.050	0.050	04/05/2022	ND	2.15	108	2.00	6.39	
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	2.12	106	2.00	6.10	
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.51	108	6.00	5.76	
Total BTX	<0.300	0.300	04/05/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/05/2022	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	04/05/2022	ND	182	91.0	200	2.78	
DRO >C10-C28*	33.8	10.0	04/05/2022	ND	180	90.1	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	04/05/2022	ND					

Surrogate: 1-Chlorooctane 81.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.2 % 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: 04/04/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/04/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS #36 @ 8" (H221334-02)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/05/2022	ND	2.18	109	2.00	6.87		
Toluene*	<0.050	0.050	04/05/2022	ND	2.15	108	2.00	6.39		
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	2.12	106	2.00	6.10		
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.51	108	6.00	5.76		
Total BTX	<0.300	0.300	04/05/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/05/2022	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	04/05/2022	ND	182	91.0	200	2.78	
DRO >C10-C28*	325	10.0	04/05/2022	ND	180	90.1	200	2.02	
EXT DRO >C28-C36	76.4	10.0	04/05/2022	ND					

Surrogate: 1-Chlorooctane 74.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 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: 04/04/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/04/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS #37 @ 8" (H221334-03)**

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	04/05/2022	ND	2.18	109	2.00	6.87		
Toluene*	<0.050	0.050	04/05/2022	ND	2.15	108	2.00	6.39		
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	2.12	106	2.00	6.10		
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.51	108	6.00	5.76		
Total BTEX	<0.300	0.300	04/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	04/05/2022	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	04/05/2022	ND	182	91.0	200	2.78	
DRO >C10-C28*	138	10.0	04/05/2022	ND	180	90.1	200	2.02	
EXT DRO >C28-C36	45.2	10.0	04/05/2022	ND					

Surrogate: 1-Chlorooctane 77.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.7 % 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: 04/04/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/04/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS #38 @ 8" (H221334-04)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/05/2022	ND	2.18	109	2.00	6.87		
Toluene*	<0.050	0.050	04/05/2022	ND	2.15	108	2.00	6.39		
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	2.12	106	2.00	6.10		
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.51	108	6.00	5.76		
Total BTX	<0.300	0.300	04/05/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/05/2022	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	04/05/2022	ND	182	91.0	200	2.78	
DRO >C10-C28*	146	10.0	04/05/2022	ND	180	90.1	200	2.02	
EXT DRO >C28-C36	41.2	10.0	04/05/2022	ND					

Surrogate: 1-Chlorooctane 83.1 % 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: 04/04/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/04/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS #39 @ 8" (H221334-05)**

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	04/05/2022	ND	2.18	109	2.00	6.87		
Toluene*	<0.050	0.050	04/05/2022	ND	2.15	108	2.00	6.39		
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	2.12	106	2.00	6.10		
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.51	108	6.00	5.76		
Total BTEX	<0.300	0.300	04/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	04/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2022	ND	182	91.0	200	2.78	
DRO >C10-C28*	268	10.0	04/05/2022	ND	180	90.1	200	2.02	
EXT DRO >C28-C36	79.9	10.0	04/05/2022	ND					

Surrogate: 1-Chlorooctane 79.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 147 % 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: 04/04/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/04/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS #40 @ 8" (H221334-06)**

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	04/05/2022	ND	2.18	109	2.00	6.87		
Toluene*	<0.050	0.050	04/05/2022	ND	2.15	108	2.00	6.39		
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	2.12	106	2.00	6.10		
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.51	108	6.00	5.76		
Total BTEX	<0.300	0.300	04/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	672	16.0	04/05/2022	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	04/05/2022	ND	182	91.0	200	2.78	
DRO >C10-C28*	256	10.0	04/05/2022	ND	180	90.1	200	2.02	
EXT DRO >C28-C36	72.1	10.0	04/05/2022	ND					

Surrogate: 1-Chlorooctane 76.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 04/04/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/04/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS #41 @ 8" (H221334-07)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/05/2022	ND	2.18	109	2.00	6.87		
Toluene*	<0.050	0.050	04/05/2022	ND	2.15	108	2.00	6.39		
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	2.12	106	2.00	6.10		
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.51	108	6.00	5.76		
Total BTX	<0.300	0.300	04/05/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/05/2022	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	04/05/2022	ND	182	91.0	200	2.78	
DRO >C10-C28*	185	10.0	04/05/2022	ND	180	90.1	200	2.02	
EXT DRO >C28-C36	48.2	10.0	04/05/2022	ND					

Surrogate: 1-Chlorooctane 71.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.7 % 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: 04/04/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/04/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS #42 @ 8" (H221334-08)**

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	04/05/2022	ND	2.18	109	2.00	6.87		
Toluene*	<0.050	0.050	04/05/2022	ND	2.15	108	2.00	6.39		
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	2.12	106	2.00	6.10		
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.51	108	6.00	5.76		
Total BTEX	<0.300	0.300	04/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	04/05/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2022	ND	182	91.0	200	2.78	
DRO >C10-C28*	416	10.0	04/05/2022	ND	180	90.1	200	2.02	
EXT DRO >C28-C36	91.8	10.0	04/05/2022	ND					

Surrogate: 1-Chlorooctane 78.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 113 % 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: 04/04/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/04/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS #43 @ 8" (H221334-09)**

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	04/05/2022	ND	2.18	109	2.00	6.87		
Toluene*	<0.050	0.050	04/05/2022	ND	2.15	108	2.00	6.39		
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	2.12	106	2.00	6.10		
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.51	108	6.00	5.76		
Total BTEX	<0.300	0.300	04/05/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/05/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2022	ND	182	91.0	200	2.78	
DRO >C10-C28*	369	10.0	04/05/2022	ND	180	90.1	200	2.02	
EXT DRO >C28-C36	95.7	10.0	04/05/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 122 % 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: 04/04/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/04/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS #44 @ 8" (H221334-10)**

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	04/05/2022	ND	2.18	109	2.00	6.87		
Toluene*	<0.050	0.050	04/05/2022	ND	2.15	108	2.00	6.39		
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	2.12	106	2.00	6.10		
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.51	108	6.00	5.76		
Total BTEx	<0.300	0.300	04/05/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/05/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2022	ND	182	91.0	200	2.78	
DRO >C10-C28*	197	10.0	04/05/2022	ND	180	90.1	200	2.02	
EXT DRO >C28-C36	53.2	10.0	04/05/2022	ND					

Surrogate: 1-Chlorooctane 97.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 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: 04/04/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/04/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS #45 (H221334-11)**

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	04/05/2022	ND	2.18	109	2.00	6.87	
Toluene*	<0.050	0.050	04/05/2022	ND	2.15	108	2.00	6.39	
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	2.12	106	2.00	6.10	
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.51	108	6.00	5.76	
Total BTEX	<0.300	0.300	04/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	640	16.0	04/05/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2022	ND	182	91.0	200	2.78	
DRO >C10-C28*	601	10.0	04/05/2022	ND	180	90.1	200	2.02	
EXT DRO >C28-C36	143	10.0	04/05/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 127 % 59.5-142

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**Analytical Results For:**

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

Received: 04/04/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/04/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS #46 (H221334-12)**

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	04/05/2022	ND	2.18	109	2.00	6.87		
Toluene*	<0.050	0.050	04/05/2022	ND	2.15	108	2.00	6.39		
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	2.12	106	2.00	6.10		
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.51	108	6.00	5.76		
Total BTEx	<0.300	0.300	04/05/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	04/05/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2022	ND	182	91.0	200	2.78	
DRO >C10-C28*	540	10.0	04/05/2022	ND	180	90.1	200	2.02	
EXT DRO >C28-C36	158	10.0	04/05/2022	ND					

Surrogate: 1-Chlorooctane 80.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 142 % 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: 04/04/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/04/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS #47 (H221334-13)**

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	04/05/2022	ND	2.18	109	2.00	6.87	
Toluene*	<0.050	0.050	04/05/2022	ND	2.15	108	2.00	6.39	
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	2.12	106	2.00	6.10	
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.51	108	6.00	5.76	
Total BTEx	<0.300	0.300	04/05/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/05/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2022	ND	214	107	200	3.43	
DRO >C10-C28*	200	10.0	04/06/2022	ND	233	117	200	4.72	
EXT DRO >C28-C36	29.7	10.0	04/06/2022	ND					

Surrogate: 1-Chlorooctane 87.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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**Analytical Results For:**

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

Received: 04/04/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/04/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS #48 (H221334-14)**

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	04/05/2022	ND	2.18	109	2.00	6.87	
Toluene*	<0.050	0.050	04/05/2022	ND	2.15	108	2.00	6.39	
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	2.12	106	2.00	6.10	
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.51	108	6.00	5.76	
Total BTEx	<0.300	0.300	04/05/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/05/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2022	ND	214	107	200	3.43	
DRO >C10-C28*	195	10.0	04/06/2022	ND	233	117	200	4.72	
EXT DRO >C28-C36	32.9	10.0	04/06/2022	ND					

Surrogate: 1-Chlorooctane 71.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.4 % 59.5-142

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**Analytical Results For:**

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

Received: 04/04/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/04/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS #49 (H221334-15)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2022	ND	2.18	109	2.00	6.87	
Toluene*	<0.050	0.050	04/05/2022	ND	2.15	108	2.00	6.39	
Ethylbenzene*	0.102	0.050	04/05/2022	ND	2.12	106	2.00	6.10	
Total Xylenes*	0.227	0.150	04/05/2022	ND	6.51	108	6.00	5.76	
Total BTX	0.329	0.300	04/05/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/05/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2022	ND	214	107	200	3.43	
DRO >C10-C28*	1510	10.0	04/06/2022	ND	233	117	200	4.72	
EXT DRO >C28-C36	257	10.0	04/06/2022	ND					

Surrogate: 1-Chlorooctane 90.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 179 % 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: 04/04/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/04/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS #50 (H221334-16)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2022	ND	2.18	109	2.00	6.87	
Toluene*	<0.050	0.050	04/05/2022	ND	2.15	108	2.00	6.39	
Ethylbenzene*	<0.050	0.050	04/05/2022	ND	2.12	106	2.00	6.10	
Total Xylenes*	<0.150	0.150	04/05/2022	ND	6.51	108	6.00	5.76	
Total BTX	<0.300	0.300	04/05/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	04/05/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2022	ND	214	107	200	3.43	
DRO >C10-C28*	215	10.0	04/06/2022	ND	233	117	200	4.72	
EXT DRO >C28-C36	50.4	10.0	04/06/2022	ND					

Surrogate: 1-Chlorooctane 77.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.3 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager



# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 19 of 20

Company Name: Etech Environmental & Safety Solutions, Inc.										<b>BILL TO</b>										<b>ANALYSIS REQUEST</b>																			
Project Manager: Lance Crenshaw										P.O. #:										<div style="display: flex; flex-direction: column; align-items: center;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: P.O. Box 301										Company: Newbourne																													
City: Lovington State: NM Zip: 88260										Attn: Robbie R																													
Phone #: (575) 396-2378 Fax #: (575) 396-1429										Address:																													
Project #: Project Owner:										City:																													
Project Name: White Federal #1										State: Zip:																													
Project Location:										Phone #:																													
Sampler Name: Aaron Rios										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									
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4221334																																							
1 FS# 35A 1ft																				X										X									
2 FS# 36 8 in																				X										X									
3 FS# 37 8 in																				X										X									
4 FS# 38 8 in																				X										X									
5 FS# 39 8 in																				X										X									
6 FS# 40 8 in																				X										X									
7 FS# 41 8 in																				X										X									
8 FS# 42 8 in																				X										X									
9 FS# 43 8 in																				X										X									
10 FS# 44 8 in																				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: Aaron Rios										Date: 4/4/22										Received By: Skodriguey										Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:									
										Time: 1620																				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:									
Relinquished By:										Date:										Received By:										REMARKS:									
										Time:																													
Delivered By: (Circle One) 1730										C-0.50										Sample Condition										CHECKED BY: (initials)									
Sampler - UPS - Bus - Other:										11:80 #113										Cool Intact										58									
																				<input type="checkbox"/> Yes <input type="checkbox"/> No										<input type="checkbox"/> Yes <input type="checkbox"/> No									
Please email results to pm@etechenv.com.																																							

FORM-006  
Revision 1.0

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



**ARDINAL LABORATORIES**

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

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

---

April 07, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WHITE FEDERAL 1

Enclosed are the results of analyses for samples received by the laboratory on 04/05/22 16:32.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 04/05/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/05/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 51 @ 8" (H221355-01)**

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	04/06/2022	ND	0.470	94.1	0.500	4.52	
Toluene*	<0.050	0.050	04/06/2022	ND	0.471	94.1	0.500	2.74	
Ethylbenzene*	<0.050	0.050	04/06/2022	ND	0.475	95.0	0.500	2.97	
Total Xylenes*	<0.150	0.150	04/06/2022	ND	1.56	104	1.50	1.84	
Total BTEX	<0.300	0.300	04/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	496	16.0	04/06/2022	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	04/06/2022	ND	181	90.3	200	0.996	
DRO >C10-C28*	323	10.0	04/06/2022	ND	184	92.1	200	0.975	
EXT DRO >C28-C36	65.4	10.0	04/06/2022	ND					

Surrogate: 1-Chlorooctane 84.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.2 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/05/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/05/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 52 @ 8" (H221355-02)**

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	04/06/2022	ND	0.470	94.1	0.500	4.52	
Toluene*	<0.050	0.050	04/06/2022	ND	0.471	94.1	0.500	2.74	
Ethylbenzene*	<0.050	0.050	04/06/2022	ND	0.475	95.0	0.500	2.97	
Total Xylenes*	<0.150	0.150	04/06/2022	ND	1.56	104	1.50	1.84	
Total BTEx	<0.300	0.300	04/06/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	04/06/2022	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	04/06/2022	ND	181	90.3	200	0.996	
DRO >C10-C28*	251	10.0	04/06/2022	ND	184	92.1	200	0.975	
EXT DRO >C28-C36	55.5	10.0	04/06/2022	ND					

Surrogate: 1-Chlorooctane 98.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/05/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/05/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 53 @ 8" (H221355-03)**

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	04/06/2022	ND	0.470	94.1	0.500	4.52	
Toluene*	<0.050	0.050	04/06/2022	ND	0.471	94.1	0.500	2.74	
Ethylbenzene*	<0.050	0.050	04/06/2022	ND	0.475	95.0	0.500	2.97	
Total Xylenes*	<0.150	0.150	04/06/2022	ND	1.56	104	1.50	1.84	
Total BTEX	<0.300	0.300	04/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	144	16.0	04/06/2022	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	04/06/2022	ND	181	90.3	200	0.996	
DRO >C10-C28*	404	10.0	04/06/2022	ND	184	92.1	200	0.975	
EXT DRO >C28-C36	64.9	10.0	04/06/2022	ND					

Surrogate: 1-Chlorooctane 93.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 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: 04/05/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/05/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 54 @ 8" (H221355-04)**

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	04/06/2022	ND	0.470	94.1	0.500	4.52	
Toluene*	<0.050	0.050	04/06/2022	ND	0.471	94.1	0.500	2.74	
Ethylbenzene*	<0.050	0.050	04/06/2022	ND	0.475	95.0	0.500	2.97	
Total Xylenes*	<0.150	0.150	04/06/2022	ND	1.56	104	1.50	1.84	
Total BTEx	<0.300	0.300	04/06/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	04/06/2022	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	04/06/2022	ND	181	90.3	200	0.996	
DRO >C10-C28*	230	10.0	04/06/2022	ND	184	92.1	200	0.975	
EXT DRO >C28-C36	53.4	10.0	04/06/2022	ND					

Surrogate: 1-Chlorooctane 90.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 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: 04/05/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/05/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 55 @ 8" (H221355-05)**

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	04/06/2022	ND	0.470	94.1	0.500	4.52	
Toluene*	<0.050	0.050	04/06/2022	ND	0.471	94.1	0.500	2.74	
Ethylbenzene*	<0.050	0.050	04/06/2022	ND	0.475	95.0	0.500	2.97	
Total Xylenes*	<0.150	0.150	04/06/2022	ND	1.56	104	1.50	1.84	
Total BTEx	<0.300	0.300	04/06/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	04/06/2022	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	04/06/2022	ND	181	90.3	200	0.996	
DRO >C10-C28*	131	10.0	04/06/2022	ND	184	92.1	200	0.975	
EXT DRO >C28-C36	26.7	10.0	04/06/2022	ND					

Surrogate: 1-Chlorooctane 89.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.8 % 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: 04/05/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/05/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 56 @ 8" (H221355-06)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/07/2022	ND	0.470	94.1	0.500	4.52		
Toluene*	<0.050	0.050	04/07/2022	ND	0.471	94.1	0.500	2.74		
Ethylbenzene*	<0.050	0.050	04/07/2022	ND	0.475	95.0	0.500	2.97		
Total Xylenes*	<0.150	0.150	04/07/2022	ND	1.56	104	1.50	1.84		
Total BTX	<0.300	0.300	04/07/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	04/06/2022	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	04/06/2022	ND	181	90.3	200	0.996	
DRO >C10-C28*	1400	10.0	04/06/2022	ND	184	92.1	200	0.975	
EXT DRO >C28-C36	289	10.0	04/06/2022	ND					

Surrogate: 1-Chlorooctane 98.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 142 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/05/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/05/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 57 @ 8" (H221355-07)**

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	04/07/2022	ND	0.470	94.1	0.500	4.52		
Toluene*	<0.050	0.050	04/07/2022	ND	0.471	94.1	0.500	2.74		
Ethylbenzene*	<0.050	0.050	04/07/2022	ND	0.475	95.0	0.500	2.97		
Total Xylenes*	<0.150	0.150	04/07/2022	ND	1.56	104	1.50	1.84		
Total BTEX	<0.300	0.300	04/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	1440	16.0	04/06/2022	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	04/06/2022	ND	181	90.3	200	0.996		
DRO >C10-C28*	833	10.0	04/06/2022	ND	184	92.1	200	0.975		
EXT DRO >C28-C36	188	10.0	04/06/2022	ND						

Surrogate: 1-Chlorooctane 90.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 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: 04/05/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/05/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 58 @ 8" (H221355-08)**

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	04/07/2022	ND	0.470	94.1	0.500	4.52		
Toluene*	<0.050	0.050	04/07/2022	ND	0.471	94.1	0.500	2.74		
Ethylbenzene*	<0.050	0.050	04/07/2022	ND	0.475	95.0	0.500	2.97		
Total Xylenes*	<0.150	0.150	04/07/2022	ND	1.56	104	1.50	1.84		
Total BTEx	<0.300	0.300	04/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 75.5 % 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	544	16.0	04/06/2022	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	04/06/2022	ND	181	90.3	200	0.996	
DRO >C10-C28*	145	10.0	04/06/2022	ND	184	92.1	200	0.975	
EXT DRO >C28-C36	37.9	10.0	04/06/2022	ND					

Surrogate: 1-Chlorooctane 82.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.2 % 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: 04/05/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/05/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 59 @ 8" (H221355-09)**

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	04/07/2022	ND	0.470	94.1	0.500	4.52		
Toluene*	<0.050	0.050	04/07/2022	ND	0.471	94.1	0.500	2.74		
Ethylbenzene*	<0.050	0.050	04/07/2022	ND	0.475	95.0	0.500	2.97		
Total Xylenes*	<0.150	0.150	04/07/2022	ND	1.56	104	1.50	1.84		
Total BTEx	<0.300	0.300	04/07/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/06/2022	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	04/06/2022	ND	181	90.3	200	0.996	
DRO >C10-C28*	168	10.0	04/06/2022	ND	184	92.1	200	0.975	
EXT DRO >C28-C36	24.6	10.0	04/06/2022	ND					

Surrogate: 1-Chlorooctane 95.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/05/2022  
 Reported: 04/07/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/05/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 60 @ 8" (H221355-10)**

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	04/07/2022	ND	0.470	94.1	0.500	4.52		
Toluene*	<0.050	0.050	04/07/2022	ND	0.471	94.1	0.500	2.74		
Ethylbenzene*	<0.050	0.050	04/07/2022	ND	0.475	95.0	0.500	2.97		
Total Xylenes*	<0.150	0.150	04/07/2022	ND	1.56	104	1.50	1.84		
Total BTEx	<0.300	0.300	04/07/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	04/06/2022	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	04/06/2022	ND	181	90.3	200	0.996	
DRO >C10-C28*	93.2	10.0	04/06/2022	ND	184	92.1	200	0.975	
EXT DRO >C28-C36	14.2	10.0	04/06/2022	ND					

Surrogate: 1-Chlorooctane 81.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager



# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 13 of 13

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: <i>Lance Crumshaw</i>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: P.O. Box 301				Company: <i>Moulbourne</i>																							
City: <i>Lovington Hobbs NM</i> State: NM Zip: 88260				Attn: <i>Robbie R</i>																							
Phone #: (575) 396-2378 <i>4-5-22</i> Fax #: (575) 396-1429				Address:																							
Project #: Project Owner:				City:																							
Project Name: <i>White Federal #1</i>				State: Zip:																							
Project Location:				Phone #:																							
Sampler Name: <i>Aaron Rios</i>				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													
<i>H221355</i>																											
<i>1</i>	<i>FS # 51 @ 8 inches</i>	<i>X</i>		<i>X</i>						<i>X</i>			<i>4-5-22</i>		<i>X</i>	<i>X</i>	<i>X</i>										
<i>2</i>	<i>FS # 52 @ 8 inches</i>																										
<i>3</i>	<i>FS # 53 @ 8 inches</i>																										
<i>4</i>	<i>FS # 54 @ 8 inches</i>																										
<i>5</i>	<i>FS # 55 @ 8 inches</i>																										
<i>6</i>	<i>FS # 56 @ 8 inches</i>																										
<i>7</i>	<i>FS # 57 @ 8 inches</i>																										
<i>8</i>	<i>FS # 58 @ 8 inches</i>																										
<i>9</i>	<i>FS # 59 @ 8 inches</i>																										
<i>10</i>	<i>FS # 60 @ 8 inches</i>																										
<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>Aaron Rios</i>				Date: <i>4-5-22</i>		Received By: <i>Rodriguez</i>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:													
				Time: <i>11:32</i>						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:													
Relinquished By:				Date:		Received By:				REMARKS:																	
				Time:																							
Delivered By: (Circle One) <i>8.6°C</i> <i>C-0.5°C</i>				Sample Condition				CHECKED BY:				Please email results to pm@etechenv.com.															
Sampler - UPS - Bus - Other: <i>8.1°C #113</i>				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<i>SR</i>																			

FORM-006  
Revision 1.0

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



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---

April 11, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WHITE FEDERAL 1

Enclosed are the results of analyses for samples received by the laboratory on 04/06/22 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 61 @ 8" (H221401-01)**

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	04/09/2022	ND	2.10	105	2.00	4.42	
Toluene*	<0.050	0.050	04/09/2022	ND	2.06	103	2.00	5.19	
Ethylbenzene*	<0.050	0.050	04/09/2022	ND	2.04	102	2.00	5.68	
Total Xylenes*	<0.150	0.150	04/09/2022	ND	6.32	105	6.00	5.67	
Total BTEX	<0.300	0.300	04/09/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/11/2022	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	04/08/2022	ND	187	93.5	200	7.12	
DRO >C10-C28*	<10.0	10.0	04/08/2022	ND	179	89.7	200	5.97	
EXT DRO >C28-C36	<10.0	10.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 95.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 62 @ 8" (H221401-02)**

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	04/09/2022	ND	2.10	105	2.00	4.42		
Toluene*	<0.050	0.050	04/09/2022	ND	2.06	103	2.00	5.19		
Ethylbenzene*	<0.050	0.050	04/09/2022	ND	2.04	102	2.00	5.68		
Total Xylenes*	<0.150	0.150	04/09/2022	ND	6.32	105	6.00	5.67		
Total BTEx	<0.300	0.300	04/09/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/11/2022	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	04/08/2022	ND	187	93.5	200	7.12	
DRO >C10-C28*	<10.0	10.0	04/08/2022	ND	179	89.7	200	5.97	
EXT DRO >C28-C36	<10.0	10.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 86.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.0 % 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: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 63 @ 8" (H221401-03)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2022	ND	2.10	105	2.00	4.42	
Toluene*	<0.050	0.050	04/09/2022	ND	2.06	103	2.00	5.19	
Ethylbenzene*	<0.050	0.050	04/09/2022	ND	2.04	102	2.00	5.68	
Total Xylenes*	<0.150	0.150	04/09/2022	ND	6.32	105	6.00	5.67	
Total BTX	<0.300	0.300	04/09/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/11/2022	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	04/08/2022	ND	187	93.5	200	7.12	
DRO >C10-C28*	271	10.0	04/08/2022	ND	179	89.7	200	5.97	
EXT DRO >C28-C36	62.2	10.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 88.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 120 % 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: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 64 @ 8" (H221401-04)**

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	04/09/2022	ND	2.10	105	2.00	4.42	
Toluene*	<0.050	0.050	04/09/2022	ND	2.06	103	2.00	5.19	
Ethylbenzene*	<0.050	0.050	04/09/2022	ND	2.04	102	2.00	5.68	
Total Xylenes*	<0.150	0.150	04/09/2022	ND	6.32	105	6.00	5.67	
Total BTEX	<0.300	0.300	04/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	144	16.0	04/11/2022	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	04/08/2022	ND	187	93.5	200	7.12	
DRO >C10-C28*	258	10.0	04/08/2022	ND	179	89.7	200	5.97	
EXT DRO >C28-C36	52.0	10.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 79.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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**Analytical Results For:**

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

Received: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 65 @ 8" (H221401-05)**

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	04/09/2022	ND	2.10	105	2.00	4.42		
Toluene*	<0.050	0.050	04/09/2022	ND	2.06	103	2.00	5.19		
Ethylbenzene*	<0.050	0.050	04/09/2022	ND	2.04	102	2.00	5.68		
Total Xylenes*	<0.150	0.150	04/09/2022	ND	6.32	105	6.00	5.67		
Total BTEX	<0.300	0.300	04/09/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	04/11/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/08/2022	ND	187	93.5	200	7.12		
DRO >C10-C28*	875	10.0	04/08/2022	ND	179	89.7	200	5.97		
EXT DRO >C28-C36	209	10.0	04/08/2022	ND						

Surrogate: 1-Chlorooctane 80.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 168 % 59.5-142

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**Analytical Results For:**

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

Received: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 66 @ 8" (H221401-06)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2022	ND	2.19	110	2.00	0.415	QR-03
Toluene*	<0.050	0.050	04/11/2022	ND	2.20	110	2.00	0.846	QR-03
Ethylbenzene*	<0.050	0.050	04/11/2022	ND	2.17	109	2.00	0.0430	QR-03
Total Xylenes*	<0.150	0.150	04/11/2022	ND	6.68	111	6.00	0.0689	
Total BTX	<0.300	0.300	04/11/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2280	16.0	04/11/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/08/2022	ND	187	93.5	200	7.12	
DRO >C10-C28*	1810	10.0	04/08/2022	ND	179	89.7	200	5.97	
EXT DRO >C28-C36	474	10.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 81.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 248 % 59.5-142

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 67 @ 8" (H221401-07)**

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	04/09/2022	ND	2.19	110	2.00	0.415		
Toluene*	<0.050	0.050	04/09/2022	ND	2.20	110	2.00	0.846		
Ethylbenzene*	<0.050	0.050	04/09/2022	ND	2.17	109	2.00	0.0430		
Total Xylenes*	<0.150	0.150	04/09/2022	ND	6.68	111	6.00	0.0689		
Total BTEX	<0.300	0.300	04/09/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1680	16.0	04/11/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/08/2022	ND	187	93.5	200	7.12	
DRO >C10-C28*	896	10.0	04/08/2022	ND	179	89.7	200	5.97	
EXT DRO >C28-C36	455	10.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 70.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 175 % 59.5-142

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 68 @ 8" (H221401-08)**

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	04/09/2022	ND	2.19	110	2.00	0.415		
Toluene*	<0.050	0.050	04/09/2022	ND	2.20	110	2.00	0.846		
Ethylbenzene*	<0.050	0.050	04/09/2022	ND	2.17	109	2.00	0.0430		
Total Xylenes*	<0.150	0.150	04/09/2022	ND	6.68	111	6.00	0.0689		
Total BTEx	<0.300	0.300	04/09/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	04/11/2022	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	04/08/2022	ND	187	93.5	200	7.12	
DRO >C10-C28*	171	10.0	04/08/2022	ND	179	89.7	200	5.97	
EXT DRO >C28-C36	90.5	10.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 80.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 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: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 69 @ 8" (H221401-09)**

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	04/09/2022	ND	2.19	110	2.00	0.415		
Toluene*	<0.050	0.050	04/09/2022	ND	2.20	110	2.00	0.846		
Ethylbenzene*	<0.050	0.050	04/09/2022	ND	2.17	109	2.00	0.0430		
Total Xylenes*	<0.150	0.150	04/09/2022	ND	6.68	111	6.00	0.0689		
Total BTEx	<0.300	0.300	04/09/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	04/11/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	04/08/2022	ND	187	93.5	200	7.12	
DRO >C10-C28*	6350	50.0	04/08/2022	ND	179	89.7	200	5.97	
EXT DRO >C28-C36	2180	50.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 78.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 724 % 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: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 70 @ 8" (H221401-10)**

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	04/09/2022	ND	2.19	110	2.00	0.415		
Toluene*	<0.050	0.050	04/09/2022	ND	2.20	110	2.00	0.846		
Ethylbenzene*	<0.050	0.050	04/09/2022	ND	2.17	109	2.00	0.0430		
Total Xylenes*	<0.150	0.150	04/09/2022	ND	6.68	111	6.00	0.0689		
Total BTEx	<0.300	0.300	04/09/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/11/2022	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	04/08/2022	ND	187	93.5	200	7.12	
DRO >C10-C28*	<10.0	10.0	04/08/2022	ND	179	89.7	200	5.97	
EXT DRO >C28-C36	<10.0	10.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 94.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 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: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 71 @ 8" (H221401-11)**

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	04/09/2022	ND	2.19	110	2.00	0.415		
Toluene*	<0.050	0.050	04/09/2022	ND	2.20	110	2.00	0.846		
Ethylbenzene*	<0.050	0.050	04/09/2022	ND	2.17	109	2.00	0.0430		
Total Xylenes*	<0.150	0.150	04/09/2022	ND	6.68	111	6.00	0.0689		
Total BTEX	<0.300	0.300	04/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	208	16.0	04/11/2022	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	04/08/2022	ND	187	93.5	200	7.12	
DRO >C10-C28*	<10.0	10.0	04/08/2022	ND	179	89.7	200	5.97	
EXT DRO >C28-C36	<10.0	10.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 80.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 72 @ 8" (H221401-12)**

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	04/09/2022	ND	2.19	110	2.00	0.415		
Toluene*	<0.050	0.050	04/09/2022	ND	2.20	110	2.00	0.846		
Ethylbenzene*	<0.050	0.050	04/09/2022	ND	2.17	109	2.00	0.0430		
Total Xylenes*	<0.150	0.150	04/09/2022	ND	6.68	111	6.00	0.0689		
Total BTEX	<0.300	0.300	04/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	656	16.0	04/11/2022	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	04/08/2022	ND	187	93.5	200	7.12	
DRO >C10-C28*	61.3	10.0	04/08/2022	ND	179	89.7	200	5.97	
EXT DRO >C28-C36	22.4	10.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 79.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.5 % 59.5-142

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**Analytical Results For:**

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

Received: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 73 @ 8" (H221401-13)**

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	04/09/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	04/09/2022	ND	2.20	110	2.00	0.846	
Ethylbenzene*	<0.050	0.050	04/09/2022	ND	2.17	109	2.00	0.0430	
Total Xylenes*	<0.150	0.150	04/09/2022	ND	6.68	111	6.00	0.0689	
Total BTEX	<0.300	0.300	04/09/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	04/11/2022	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	04/08/2022	ND	187	93.5	200	7.12	
DRO >C10-C28*	382	10.0	04/08/2022	ND	179	89.7	200	5.97	
EXT DRO >C28-C36	255	10.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 97.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 133 % 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: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 74 @ 8" (H221401-14)**

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	04/09/2022	ND	2.19	110	2.00	0.415		
Toluene*	<0.050	0.050	04/09/2022	ND	2.20	110	2.00	0.846		
Ethylbenzene*	<0.050	0.050	04/09/2022	ND	2.17	109	2.00	0.0430		
Total Xylenes*	<0.150	0.150	04/09/2022	ND	6.68	111	6.00	0.0689		
Total BTEX	<0.300	0.300	04/09/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/11/2022	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	04/08/2022	ND	187	93.5	200	7.12	
DRO >C10-C28*	109	10.0	04/08/2022	ND	179	89.7	200	5.97	
EXT DRO >C28-C36	24.7	10.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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**Analytical Results For:**

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

Received: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 75 @ 8" (H221401-15)**

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	04/09/2022	ND	2.19	110	2.00	0.415		
Toluene*	<0.050	0.050	04/09/2022	ND	2.20	110	2.00	0.846		
Ethylbenzene*	<0.050	0.050	04/09/2022	ND	2.17	109	2.00	0.0430		
Total Xylenes*	<0.150	0.150	04/09/2022	ND	6.68	111	6.00	0.0689		
Total BTEX	<0.300	0.300	04/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	04/11/2022	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	04/08/2022	ND	182	90.9	200	3.89	
DRO >C10-C28*	<10.0	10.0	04/08/2022	ND	163	81.6	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 90.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.2 % 59.5-142

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 76 @ 8" (H221401-16)**

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	04/09/2022	ND	2.19	110	2.00	0.415		
Toluene*	<0.050	0.050	04/09/2022	ND	2.20	110	2.00	0.846		
Ethylbenzene*	<0.050	0.050	04/09/2022	ND	2.17	109	2.00	0.0430		
Total Xylenes*	<0.150	0.150	04/09/2022	ND	6.68	111	6.00	0.0689		
Total BTEX	<0.300	0.300	04/09/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/11/2022	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	04/08/2022	ND	182	90.9	200	3.89	
DRO >C10-C28*	<10.0	10.0	04/08/2022	ND	163	81.6	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.5 % 59.5-142

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**Analytical Results For:**

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

Received: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 77 @ 8" (H221401-17)**

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	04/09/2022	ND	2.19	110	2.00	0.415		
Toluene*	<0.050	0.050	04/09/2022	ND	2.20	110	2.00	0.846		
Ethylbenzene*	<0.050	0.050	04/09/2022	ND	2.17	109	2.00	0.0430		
Total Xylenes*	<0.150	0.150	04/09/2022	ND	6.68	111	6.00	0.0689		
Total BTEx	<0.300	0.300	04/09/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/11/2022	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	04/08/2022	ND	182	90.9	200	3.89	
DRO >C10-C28*	<10.0	10.0	04/08/2022	ND	163	81.6	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 99.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.6 % 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: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 78 @ 8" (H221401-18)**

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	04/09/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	04/09/2022	ND	2.20	110	2.00	0.846	
Ethylbenzene*	<0.050	0.050	04/09/2022	ND	2.17	109	2.00	0.0430	
Total Xylenes*	<0.150	0.150	04/09/2022	ND	6.68	111	6.00	0.0689	
Total BTEx	<0.300	0.300	04/09/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/11/2022	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	04/08/2022	ND	182	90.9	200	3.89	
DRO >C10-C28*	<10.0	10.0	04/08/2022	ND	163	81.6	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 92.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.2 % 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: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 79 @ 8" (H221401-19)**

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	04/09/2022	ND	2.19	110	2.00	0.415		
Toluene*	<0.050	0.050	04/09/2022	ND	2.20	110	2.00	0.846		
Ethylbenzene*	<0.050	0.050	04/09/2022	ND	2.17	109	2.00	0.0430		
Total Xylenes*	<0.150	0.150	04/09/2022	ND	6.68	111	6.00	0.0689		
Total BTEx	<0.300	0.300	04/09/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/11/2022	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	04/08/2022	ND	182	90.9	200	3.89	
DRO >C10-C28*	45.7	10.0	04/08/2022	ND	163	81.6	200	5.62	
EXT DRO >C28-C36	22.0	10.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 87.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.3 % 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: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 80 @ 8" (H221401-20)**

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	04/11/2022	ND	2.19	110	2.00	0.415		
Toluene*	<0.050	0.050	04/11/2022	ND	2.20	110	2.00	0.846		
Ethylbenzene*	<0.050	0.050	04/11/2022	ND	2.17	109	2.00	0.0430		
Total Xylenes*	<0.150	0.150	04/11/2022	ND	6.68	111	6.00	0.0689		
Total BTEx	<0.300	0.300	04/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	544	16.0	04/11/2022	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*	<50.0	50.0	04/08/2022	ND	182	90.9	200	3.89	
DRO >C10-C28*	2040	50.0	04/08/2022	ND	163	81.6	200	5.62	
EXT DRO >C28-C36	382	50.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 119 % 66.9-136

Surrogate: 1-Chlorooctadecane 124 % 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: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 81 @ 8" (H221401-21)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2022	ND	2.19	110	2.00	0.415	
Toluene*	<0.050	0.050	04/09/2022	ND	2.20	110	2.00	0.846	
Ethylbenzene*	<0.050	0.050	04/09/2022	ND	2.17	109	2.00	0.0430	
Total Xylenes*	<0.150	0.150	04/09/2022	ND	6.68	111	6.00	0.0689	
Total BTX	<0.300	0.300	04/09/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/11/2022	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	04/08/2022	ND	182	90.9	200	3.89	
DRO >C10-C28*	<10.0	10.0	04/08/2022	ND	163	81.6	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 100 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.0 % 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: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 82 @ 8" (H221401-22)**

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	04/09/2022	ND	2.19	110	2.00	0.415		
Toluene*	<0.050	0.050	04/09/2022	ND	2.20	110	2.00	0.846		
Ethylbenzene*	<0.050	0.050	04/09/2022	ND	2.17	109	2.00	0.0430		
Total Xylenes*	<0.150	0.150	04/09/2022	ND	6.68	111	6.00	0.0689		
Total BTEx	<0.300	0.300	04/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	04/11/2022	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	04/08/2022	ND	182	90.9	200	3.89	
DRO >C10-C28*	77.5	10.0	04/08/2022	ND	163	81.6	200	5.62	
EXT DRO >C28-C36	26.1	10.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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**Analytical Results For:**

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

Received: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 83 @ 8" (H221401-23)**

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	04/11/2022	ND	2.19	110	2.00	0.415		
Toluene*	<0.050	0.050	04/11/2022	ND	2.20	110	2.00	0.846		
Ethylbenzene*	<0.050	0.050	04/11/2022	ND	2.17	109	2.00	0.0430		
Total Xylenes*	<0.150	0.150	04/11/2022	ND	6.68	111	6.00	0.0689		
Total BTEx	<0.300	0.300	04/11/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/11/2022	ND	400	100	400	7.69		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	04/08/2022	ND	182	90.9	200	3.89	
DRO >C10-C28*	1150	50.0	04/08/2022	ND	163	81.6	200	5.62	
EXT DRO >C28-C36	287	50.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 179 % 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: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 84 @ 8" (H221401-24)**

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	04/09/2022	ND	2.19	110	2.00	0.415		
Toluene*	<0.050	0.050	04/09/2022	ND	2.20	110	2.00	0.846		
Ethylbenzene*	<0.050	0.050	04/09/2022	ND	2.17	109	2.00	0.0430		
Total Xylenes*	<0.150	0.150	04/09/2022	ND	6.68	111	6.00	0.0689		
Total BTEX	<0.300	0.300	04/09/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/11/2022	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	04/08/2022	ND	182	90.9	200	3.89	
DRO >C10-C28*	281	10.0	04/08/2022	ND	163	81.6	200	5.62	
EXT DRO >C28-C36	75.5	10.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 96.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 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: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 85 @ 8" (H221401-25)**

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	04/09/2022	ND	2.19	110	2.00	0.415		
Toluene*	<0.050	0.050	04/09/2022	ND	2.20	110	2.00	0.846		
Ethylbenzene*	<0.050	0.050	04/09/2022	ND	2.17	109	2.00	0.0430		
Total Xylenes*	<0.150	0.150	04/09/2022	ND	6.68	111	6.00	0.0689		
Total BTEX	<0.300	0.300	04/09/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/11/2022	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	04/08/2022	ND	182	90.9	200	3.89	
DRO >C10-C28*	461	10.0	04/08/2022	ND	163	81.6	200	5.62	
EXT DRO >C28-C36	118	10.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 90.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 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: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 86 @ 8" (H221401-26)**

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	04/09/2022	ND	2.11	105	2.00	1.76		
Toluene*	<0.050	0.050	04/09/2022	ND	2.09	105	2.00	1.93		
Ethylbenzene*	<0.050	0.050	04/09/2022	ND	2.02	101	2.00	1.42		
Total Xylenes*	<0.150	0.150	04/09/2022	ND	6.24	104	6.00	1.93		
Total BTEX	<0.300	0.300	04/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	04/11/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/08/2022	ND	182	90.9	200	3.89		
DRO >C10-C28*	883	10.0	04/08/2022	ND	163	81.6	200	5.62		
EXT DRO >C28-C36	197	10.0	04/08/2022	ND						

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 157 % 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: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 87 @ 8" (H221401-27)**

BTX 8021B			mg/kg							
			Analyzed By: MS/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/08/2022	ND	2.11	105	2.00	1.76		
Toluene*	<0.050	0.050	04/08/2022	ND	2.09	105	2.00	1.93		
Ethylbenzene*	<0.050	0.050	04/08/2022	ND	2.02	101	2.00	1.42		
Total Xylenes*	<0.150	0.150	04/08/2022	ND	6.24	104	6.00	1.93		
Total BTX	<0.300	0.300	04/08/2022	ND						

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

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/11/2022	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	04/08/2022	ND	182	90.9	200	3.89		
DRO >C10-C28*	98.5	10.0	04/08/2022	ND	163	81.6	200	5.62		
EXT DRO >C28-C36	49.3	10.0	04/08/2022	ND						

Surrogate: 1-Chlorooctane 95.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.3 % 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: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 88 @ 8" (H221401-28)**

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2022	ND	2.11	105	2.00	1.76	
Toluene*	<0.050	0.050	04/08/2022	ND	2.09	105	2.00	1.93	
Ethylbenzene*	<0.050	0.050	04/08/2022	ND	2.02	101	2.00	1.42	
Total Xylenes*	<0.150	0.150	04/08/2022	ND	6.24	104	6.00	1.93	
Total BTX	<0.300	0.300	04/08/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	04/11/2022	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	04/08/2022	ND	182	90.9	200	3.89	
DRO >C10-C28*	<10.0	10.0	04/08/2022	ND	163	81.6	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 95.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.5 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 89 @ 8" (H221401-29)**

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/08/2022	ND	2.11	105	2.00	1.76		
Toluene*	<0.050	0.050	04/08/2022	ND	2.09	105	2.00	1.93		
Ethylbenzene*	<0.050	0.050	04/08/2022	ND	2.02	101	2.00	1.42		
Total Xylenes*	<0.150	0.150	04/08/2022	ND	6.24	104	6.00	1.93		
Total BTX	<0.300	0.300	04/08/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/11/2022	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	04/08/2022	ND	182	90.9	200	3.89	
DRO >C10-C28*	<10.0	10.0	04/08/2022	ND	163	81.6	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 98.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.7 % 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: 04/06/2022  
 Reported: 04/11/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS # 90 @ 8" (H221401-30)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/08/2022	ND	2.11	105	2.00	1.76		
Toluene*	<0.050	0.050	04/08/2022	ND	2.09	105	2.00	1.93		
Ethylbenzene*	<0.050	0.050	04/08/2022	ND	2.02	101	2.00	1.42		
Total Xylenes*	<0.150	0.150	04/08/2022	ND	6.24	104	6.00	1.93		
Total BTEX	<0.300	0.300	04/08/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/11/2022	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	04/08/2022	ND	182	90.9	200	3.89	
DRO >C10-C28*	<10.0	10.0	04/08/2022	ND	163	81.6	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	04/08/2022	ND					

Surrogate: 1-Chlorooctane 94.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.6 % 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

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 3

~~Page 33 of 35~~

## 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: Mewbourne																									
City: Levington Hobbs State: NM Zip: 88200 88240				Attn: Robbie Runnels																									
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																									
Project #: 15286 Project Owner: Robbie Runnels				City:																									
Project Name: White Federal 1				State: Zip:																									
Project Location: Mewbourne Oil Company				Phone #:																									
Sampler Name: Eric Mojica				Fax #:																									
FOR LAB USE ONLY						MATRIX														PRESERV.		SAMPLING							
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE		ICE / COOL							
H221401				C		1						✓														4-6-22			
1		FS#61e8in.		C		1						✓														✓		✓	
2		FS#62e8in.		C		1						✓														✓		✓	
3		FS#63e8in.		C		1						✓														✓		✓	
4		FS#64e8in.		C		1						✓														✓		✓	
5		FS#65e8in.		C		1						✓														✓		✓	
6		FS#66e8in.		C		1						✓														✓		✓	
7		FS#67e8in.		C		1						✓														✓		✓	
8		FS#68e8in.		C		1						✓														✓		✓	
9		FS#69e8in.		C		1						✓														✓		✓	
10		FS#70e8in.		C		1						✓														✓		✓	
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																													
Relinquished By: Eric Mojica				Date: 4-6-22		Received By: S. Rodriguez				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:				REMARKS:											
Relinquished By:				Time: 11:25		Received By:				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:															
				Date:																									
Delivered By: (Circle One)				Time:																									
Sampler - UPS - Bus - Other:				26.5% K-0.5%		Sample Condition				CHECKED BY: (Initials)				Please email results to pm@etechenv.com.															
				2008#113		Cool Intact				SJR																			
						<input type="checkbox"/> Yes <input type="checkbox"/> No																							
						<input type="checkbox"/> No <input type="checkbox"/> No																							





# CARDINAL LABORATORIES

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

No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 + 3

Page 34 of 35

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: P.O. Box 301				Company: Mewbourne																							
City: <del>Livingston</del> Hobbs State: NM Zip: <del>80260</del> 88240				Attn: Robbie Runels																							
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																							
Project #: 15286 Project Owner: Robbie Runels				City:																							
Project Name: White Federal 1				State: Zip:																							
Project Location: Mewbourne Oil Company				Phone #:																							
Sampler Name: Eric Mojica				Fax #:																							
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	DATE	TIME													
H221401																											
11	FS#71e8in.	C	1			✓							4-6-22		✓	✓	✓										
12	FS#72e8in.	C	1			✓							✓		✓	✓	✓										
13	FS73e8in.	C	1			✓							✓		✓	✓	✓										
14	FS74e8in.	C	1			✓							✓		✓	✓	✓										
15	FS75e8in.	C	1			✓							✓		✓	✓	✓										
16	FS76e8in.	C	1			✓							✓		✓	✓	✓										
17	FS77e8in.	C	1			✓							✓		✓	✓	✓										
18	FS78e8in.	C	1			✓							✓		✓	✓	✓										
19	FS79e8in.	C	1			✓							✓		✓	✓	✓										
20	FS80e8in.	C	1			✓							✓		✓	✓	✓										

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Relinquished By: <i>Eric Mojica</i>	Date: 4-6-22 Time: 1025	Received By: <i>Shodkany</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: Add'l Fax #:
Relinquished By:	Date: Time:	Received By:	REMARKS:	
Delivered By: (Circle One) 26.58 C-0.50 Sampler - UPS - Bus - Other: 26.00 #113			Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	
CHECKED BY: (Initials) <i>SK</i>			Please email results to pm@etechenv.com.	





# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 3

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>															
Project Manager: <u>Lance Crenshaw</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>															
Address: P.O. Box 301				Company: <u>Mewbourne</u>																			
City: <u>Lovington Hobbs</u> State: NM Zip: <u>88240</u>				Attn: <u>Robbie Runnels</u>																			
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																			
Project #: <u>15286</u> Project Owner:				City:																			
Project Name: <u>White Federal I</u>				State: Zip:																			
Project Location: <u>Mewbourne Oil Company</u>				Phone #:																			
Sampler Name: <u>Eric Mojica</u>				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE	ICE / COOL	OTHER :	DATE	TIME									
<u>H221401</u>																							
<u>21</u>	<u>FS 81e 8in.</u>	<u>C</u>	<u>1</u>			<u>✓</u>							<u>4-6-22</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>						
<u>22</u>	<u>FS 82e 8in.</u>	<u>C</u>	<u>1</u>			<u>✓</u>							<u>✓</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>						
<u>23</u>	<u>FS 83e 8in.</u>	<u>C</u>	<u>1</u>			<u>✓</u>							<u>✓</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>						
<u>24</u>	<u>FS 84e 8in.</u>	<u>C</u>	<u>1</u>			<u>✓</u>							<u>✓</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>						
<u>25</u>	<u>FS 85e 8in.</u>	<u>C</u>	<u>1</u>			<u>✓</u>							<u>✓</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>						
<u>26</u>	<u>FS 86e 8in.</u>	<u>C</u>	<u>1</u>			<u>✓</u>							<u>✓</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>						
<u>27</u>	<u>FS 87e 8in.</u>	<u>C</u>	<u>1</u>			<u>✓</u>							<u>✓</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>						
<u>28</u>	<u>FS 88e 8in.</u>	<u>C</u>	<u>1</u>			<u>✓</u>							<u>✓</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>						
<u>29</u>	<u>FS 89e 8in.</u>	<u>C</u>	<u>1</u>			<u>✓</u>							<u>✓</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>						
<u>30</u>	<u>FS 90e 8in.</u>	<u>C</u>	<u>1</u>			<u>✓</u>							<u>✓</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>						

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Relinquished By: <u>Eric Mojica</u>	Date: <u>4-6-22</u> Time: <u>10:25</u>	Received By: <u>Robbie Runnels</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS:
Relinquished By:	Date: Time:	Received By:	

Delivered By: (Circle One) 26.88 C-O.58 20.00 #13

Sampler - UPS - Bus - Other:

Sample Condition  
Cool Intact  
☐ Yes ☒ No ☐ Yes ☐ No

CHECKED BY: (Initials) SR

Please email results to pm@etechenv.com.

4/7/22



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

---

April 13, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WHITE FEDERAL 1

Enclosed are the results of analyses for samples received by the laboratory on 04/07/22 16:08.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 91 @ 8" (H221427-01)**

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	04/11/2022	ND	2.06	103	2.00	13.2	
Toluene*	<0.050	0.050	04/11/2022	ND	2.06	103	2.00	13.2	
Ethylbenzene*	<0.050	0.050	04/11/2022	ND	1.97	98.4	2.00	13.5	
Total Xylenes*	<0.150	0.150	04/11/2022	ND	6.14	102	6.00	13.5	
Total BTEX	<0.300	0.300	04/11/2022	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	64.0	16.0	04/12/2022	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	04/12/2022	ND	201	101	200	0.148	
DRO >C10-C28*	160	10.0	04/12/2022	ND	214	107	200	0.287	
EXT DRO >C28-C36	28.4	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 88.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 92 @ 8" (H221427-02)**

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2022	ND	2.06	103	2.00	13.2		
Toluene*	<0.050	0.050	04/11/2022	ND	2.06	103	2.00	13.2		
Ethylbenzene*	<0.050	0.050	04/11/2022	ND	1.97	98.4	2.00	13.5		
Total Xylenes*	<0.150	0.150	04/11/2022	ND	6.14	102	6.00	13.5		
Total BTX	<0.300	0.300	04/11/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/12/2022	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*	11.3	10.0	04/12/2022	ND	209	104	200	0.282	
DRO >C10-C28*	483	10.0	04/12/2022	ND	225	112	200	2.62	
EXT DRO >C28-C36	94.9	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 90.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

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 HOBBS NM, 88240  
 Fax To:

Received: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 93 @ 8" (H221427-03)**

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	04/11/2022	ND	2.06	103	2.00	13.2	
Toluene*	<0.050	0.050	04/11/2022	ND	2.06	103	2.00	13.2	
Ethylbenzene*	0.096	0.050	04/11/2022	ND	1.97	98.4	2.00	13.5	
Total Xylenes*	0.308	0.150	04/11/2022	ND	6.14	102	6.00	13.5	GC-NC1
Total BTEX	0.404	0.300	04/11/2022	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	80.0	16.0	04/12/2022	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*	18.0	10.0	04/12/2022	ND	209	104	200	0.282	
DRO >C10-C28*	420	10.0	04/12/2022	ND	225	112	200	2.62	
EXT DRO >C28-C36	81.3	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 88.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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Received: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 94 @ 8" (H221427-04)**

BTX 8021B			mg/kg							
			Analyzed By: MS/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2022	ND	2.06	103	2.00	13.2		
Toluene*	<0.050	0.050	04/11/2022	ND	2.06	103	2.00	13.2		
Ethylbenzene*	<0.050	0.050	04/11/2022	ND	1.97	98.4	2.00	13.5		
Total Xylenes*	<0.150	0.150	04/11/2022	ND	6.14	102	6.00	13.5		
Total BTX	<0.300	0.300	04/11/2022	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	128	16.0	04/12/2022	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*	11.9	10.0	04/12/2022	ND	209	104	200	0.282		
DRO >C10-C28*	1010	10.0	04/12/2022	ND	225	112	200	2.62		
EXT DRO >C28-C36	214	10.0	04/12/2022	ND						

Surrogate: 1-Chlorooctane 93.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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 Fax To:

Received: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 95 @ 8" (H221427-05)**

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	04/11/2022	ND	2.06	103	2.00	13.2		
Toluene*	<0.050	0.050	04/11/2022	ND	2.06	103	2.00	13.2		
Ethylbenzene*	0.127	0.050	04/11/2022	ND	1.97	98.4	2.00	13.5		
Total Xylenes*	0.731	0.150	04/11/2022	ND	6.14	102	6.00	13.5	GC-NC1	
Total BTEX	0.858	0.300	04/11/2022	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 131 % 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	400	16.0	04/12/2022	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*	81.6	10.0	04/12/2022	ND	209	104	200	0.282		
DRO >C10-C28*	3200	10.0	04/12/2022	ND	225	112	200	2.62		
EXT DRO >C28-C36	694	10.0	04/12/2022	ND						

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

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Received: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 96 @ 8" (H221427-06)**

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2022	ND	2.06	103	2.00	13.2		
Toluene*	<0.050	0.050	04/11/2022	ND	2.06	103	2.00	13.2		
Ethylbenzene*	<0.050	0.050	04/11/2022	ND	1.97	98.4	2.00	13.5		
Total Xylenes*	<0.150	0.150	04/11/2022	ND	6.14	102	6.00	13.5		
Total BTX	<0.300	0.300	04/11/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	04/12/2022	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	04/12/2022	ND	209	104	200	0.282	
DRO >C10-C28*	751	10.0	04/12/2022	ND	225	112	200	2.62	
EXT DRO >C28-C36	198	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 97 @ 8" (H221427-07)**

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2022	ND	2.06	103	2.00	13.2		
Toluene*	<0.050	0.050	04/11/2022	ND	2.06	103	2.00	13.2		
Ethylbenzene*	<0.050	0.050	04/11/2022	ND	1.97	98.4	2.00	13.5		
Total Xylenes*	<0.150	0.150	04/11/2022	ND	6.14	102	6.00	13.5		
Total BTX	<0.300	0.300	04/11/2022	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	704	16.0	04/12/2022	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	04/12/2022	ND	209	104	200	0.282	
DRO >C10-C28*	<10.0	10.0	04/12/2022	ND	225	112	200	2.62	
EXT DRO >C28-C36	14.5	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 87.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.4 % 59.5-142

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 HOBBS NM, 88240  
 Fax To:

Received: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 98 @ 8" (H221427-08)**

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	04/11/2022	ND	2.06	103	2.00	13.2	
Toluene*	<0.050	0.050	04/11/2022	ND	2.06	103	2.00	13.2	
Ethylbenzene*	<0.050	0.050	04/11/2022	ND	1.97	98.4	2.00	13.5	
Total Xylenes*	<0.150	0.150	04/11/2022	ND	6.14	102	6.00	13.5	
Total BTEx	<0.300	0.300	04/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	960	16.0	04/12/2022	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	04/12/2022	ND	209	104	200	0.282	
DRO >C10-C28*	<10.0	10.0	04/12/2022	ND	225	112	200	2.62	
EXT DRO >C28-C36	<10.0	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 88.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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 Fax To:

Received: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 99 @ 8" (H221427-09)**

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2022	ND	1.95	97.4	2.00	8.20	
Toluene*	<0.050	0.050	04/12/2022	ND	1.94	97.1	2.00	8.85	
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	1.86	92.8	2.00	8.65	
Total Xylenes*	<0.150	0.150	04/12/2022	ND	5.77	96.1	6.00	8.21	
Total BTX	<0.300	0.300	04/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	04/12/2022	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	04/12/2022	ND	209	104	200	0.282	
DRO >C10-C28*	<10.0	10.0	04/12/2022	ND	225	112	200	2.62	
EXT DRO >C28-C36	<10.0	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 92.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

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 Fax To:

Received: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 100 @ 8" (H221427-10)**

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2022	ND	1.95	97.4	2.00	8.20	
Toluene*	<0.050	0.050	04/12/2022	ND	1.94	97.1	2.00	8.85	
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	1.86	92.8	2.00	8.65	
Total Xylenes*	<0.150	0.150	04/12/2022	ND	5.77	96.1	6.00	8.21	
Total BTX	<0.300	0.300	04/12/2022	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	32.0	16.0	04/12/2022	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	04/12/2022	ND	209	104	200	0.282	
DRO >C10-C28*	118	10.0	04/12/2022	ND	225	112	200	2.62	
EXT DRO >C28-C36	13.8	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 92.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 101 @ 8" (H221427-11)**

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	04/12/2022	ND	1.95	97.4	2.00	8.20	
Toluene*	<0.050	0.050	04/12/2022	ND	1.94	97.1	2.00	8.85	
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	1.86	92.8	2.00	8.65	
Total Xylenes*	<0.150	0.150	04/12/2022	ND	5.77	96.1	6.00	8.21	
Total BTEX	<0.300	0.300	04/12/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/12/2022	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	04/12/2022	ND	209	104	200	0.282	
DRO >C10-C28*	316	10.0	04/12/2022	ND	225	112	200	2.62	
EXT DRO >C28-C36	59.7	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 89.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 113 % 59.5-142

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**Analytical Results For:**

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

Received: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 102 @ 8" (H221427-12)**

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2022	ND	1.95	97.4	2.00	8.20	
Toluene*	<0.050	0.050	04/12/2022	ND	1.94	97.1	2.00	8.85	
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	1.86	92.8	2.00	8.65	
Total Xylenes*	<0.150	0.150	04/12/2022	ND	5.77	96.1	6.00	8.21	
Total BTX	<0.300	0.300	04/12/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/12/2022	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	04/12/2022	ND	209	104	200	0.282	
DRO >C10-C28*	419	10.0	04/12/2022	ND	225	112	200	2.62	
EXT DRO >C28-C36	93.3	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 90.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 103 @ 8" (H221427-13)**

BTX 8021B			mg/kg							
			Analyzed By: MS/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2022	ND	1.95	97.4	2.00	8.20		
Toluene*	<0.050	0.050	04/12/2022	ND	1.94	97.1	2.00	8.85		
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	1.86	92.8	2.00	8.65		
Total Xylenes*	<0.150	0.150	04/12/2022	ND	5.77	96.1	6.00	8.21		
Total BTX	<0.300	0.300	04/12/2022	ND						

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

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	04/12/2022	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	04/12/2022	ND	209	104	200	0.282		
DRO >C10-C28*	779	10.0	04/12/2022	ND	225	112	200	2.62		
EXT DRO >C28-C36	155	10.0	04/12/2022	ND						

Surrogate: 1-Chlorooctane 89.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 104 @ 8" (H221427-14)**

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	04/12/2022	ND	1.95	97.4	2.00	8.20		
Toluene*	<0.050	0.050	04/12/2022	ND	1.94	97.1	2.00	8.85		
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	1.86	92.8	2.00	8.65		
Total Xylenes*	<0.150	0.150	04/12/2022	ND	5.77	96.1	6.00	8.21		
Total BTEX	<0.300	0.300	04/12/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/12/2022	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	04/12/2022	ND	209	104	200	0.282	
DRO >C10-C28*	197	10.0	04/12/2022	ND	225	112	200	2.62	
EXT DRO >C28-C36	46.8	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 85.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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**Analytical Results For:**

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 HOBBS NM, 88240  
 Fax To:

Received: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 105 @ 8" (H221427-15)**

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	04/12/2022	ND	1.95	97.4	2.00	8.20		
Toluene*	<0.050	0.050	04/12/2022	ND	1.94	97.1	2.00	8.85		
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	1.86	92.8	2.00	8.65		
Total Xylenes*	<0.150	0.150	04/12/2022	ND	5.77	96.1	6.00	8.21		
Total BTEX	<0.300	0.300	04/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	04/12/2022	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	04/12/2022	ND	209	104	200	0.282	
DRO >C10-C28*	<10.0	10.0	04/12/2022	ND	225	112	200	2.62	
EXT DRO >C28-C36	<10.0	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 94.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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**Analytical Results For:**

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

Received: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 106 @ 8" (H221427-16)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2022	ND	2.09	104	2.00	0.422	
Toluene*	<0.050	0.050	04/12/2022	ND	2.09	105	2.00	0.728	
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	2.09	104	2.00	1.48	
Total Xylenes*	<0.150	0.150	04/12/2022	ND	6.18	103	6.00	0.794	
Total BTX	<0.300	0.300	04/12/2022	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	992	16.0	04/12/2022	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	04/12/2022	ND	209	104	200	0.282	
DRO >C10-C28*	14.1	10.0	04/12/2022	ND	225	112	200	2.62	
EXT DRO >C28-C36	<10.0	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 87.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.3 % 59.5-142

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 107 @ 8" (H221427-17)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2022	ND	2.09	104	2.00	0.422		
Toluene*	<0.050	0.050	04/12/2022	ND	2.09	105	2.00	0.728		
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	2.09	104	2.00	1.48		
Total Xylenes*	<0.150	0.150	04/12/2022	ND	6.18	103	6.00	0.794		
Total BTX	<0.300	0.300	04/12/2022	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	336	16.0	04/12/2022	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	04/12/2022	ND	209	104	200	0.282	
DRO >C10-C28*	<10.0	10.0	04/12/2022	ND	225	112	200	2.62	
EXT DRO >C28-C36	<10.0	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 94.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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**Analytical Results For:**

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

Received: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 108 @ 8" (H221427-18)**

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	04/12/2022	ND	2.09	104	2.00	0.422		
Toluene*	<0.050	0.050	04/12/2022	ND	2.09	105	2.00	0.728		
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	2.09	104	2.00	1.48		
Total Xylenes*	<0.150	0.150	04/12/2022	ND	6.18	103	6.00	0.794		
Total BTEx	<0.300	0.300	04/12/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/12/2022	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	04/12/2022	ND	209	104	200	0.282	
DRO >C10-C28*	<10.0	10.0	04/12/2022	ND	225	112	200	2.62	
EXT DRO >C28-C36	<10.0	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 95.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 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: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 109 @ 8" (H221427-19)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2022	ND	2.09	104	2.00	0.422	
Toluene*	<0.050	0.050	04/12/2022	ND	2.09	105	2.00	0.728	
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	2.09	104	2.00	1.48	
Total Xylenes*	<0.150	0.150	04/12/2022	ND	6.18	103	6.00	0.794	
Total BTX	<0.300	0.300	04/12/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/12/2022	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	04/12/2022	ND	209	104	200	0.282	
DRO >C10-C28*	240	10.0	04/12/2022	ND	225	112	200	2.62	
EXT DRO >C28-C36	62.5	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 85.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 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: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 110 @ 8" (H221427-20)**

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	04/12/2022	ND	2.09	104	2.00	0.422	
Toluene*	<0.050	0.050	04/12/2022	ND	2.09	105	2.00	0.728	
Ethylbenzene*	0.244	0.050	04/12/2022	ND	2.09	104	2.00	1.48	
Total Xylenes*	0.559	0.150	04/12/2022	ND	6.18	103	6.00	0.794	GC-NC1
Total BTEX	0.808	0.300	04/12/2022	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 125 % 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	04/12/2022	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*	105	10.0	04/12/2022	ND	209	104	200	0.282	
DRO >C10-C28*	3390	10.0	04/12/2022	ND	225	112	200	2.62	
EXT DRO >C28-C36	717	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 115 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 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: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 115 @ 8" (H221427-21)**

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	04/12/2022	ND	2.09	104	2.00	0.422	
Toluene*	<0.050	0.050	04/12/2022	ND	2.09	105	2.00	0.728	
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	2.09	104	2.00	1.48	
Total Xylenes*	<0.150	0.150	04/12/2022	ND	6.18	103	6.00	0.794	
Total BTEX	<0.300	0.300	04/12/2022	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	144	16.0	04/12/2022	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	04/12/2022	ND	209	104	200	0.282	
DRO >C10-C28*	207	10.0	04/12/2022	ND	225	112	200	2.62	
EXT DRO >C28-C36	78.0	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 93.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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**Analytical Results For:**

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

Received: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 116 @ 8" (H221427-22)**

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	04/12/2022	ND	2.09	104	2.00	0.422	
Toluene*	<0.050	0.050	04/12/2022	ND	2.09	105	2.00	0.728	
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	2.09	104	2.00	1.48	
Total Xylenes*	<0.150	0.150	04/12/2022	ND	6.18	103	6.00	0.794	
Total BTEx	<0.300	0.300	04/12/2022	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	32.0	16.0	04/12/2022	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	04/11/2022	ND	190	94.9	200	4.16	
DRO >C10-C28*	<10.0	10.0	04/11/2022	ND	193	96.3	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	04/11/2022	ND					

Surrogate: 1-Chlorooctane 83.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.2 % 59.5-142

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**Analytical Results For:**

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

Received: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 117 @ 8" (H221427-23)**

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	04/12/2022	ND	2.09	104	2.00	0.422	
Toluene*	<0.050	0.050	04/12/2022	ND	2.09	105	2.00	0.728	
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	2.09	104	2.00	1.48	
Total Xylenes*	<0.150	0.150	04/12/2022	ND	6.18	103	6.00	0.794	
Total BTEX	<0.300	0.300	04/12/2022	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	96.0	16.0	04/12/2022	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	04/11/2022	ND	190	94.9	200	4.16	
DRO >C10-C28*	644	10.0	04/11/2022	ND	193	96.3	200	2.61	
EXT DRO >C28-C36	100	10.0	04/11/2022	ND					

Surrogate: 1-Chlorooctane 91.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

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**Analytical Results For:**

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

Received: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 118 @ 8" (H221427-24)**

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	04/12/2022	ND	2.09	104	2.00	0.422		
Toluene*	<0.050	0.050	04/12/2022	ND	2.09	105	2.00	0.728		
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	2.09	104	2.00	1.48		
Total Xylenes*	<0.150	0.150	04/12/2022	ND	6.18	103	6.00	0.794		
Total BTEX	<0.300	0.300	04/12/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	04/12/2022	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	04/12/2022	ND	190	94.9	200	4.16	
DRO >C10-C28*	756	10.0	04/12/2022	ND	193	96.3	200	2.61	
EXT DRO >C28-C36	205	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 93.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 113 % 59.5-142

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**Analytical Results For:**

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

Received: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 119 @ 8" (H221427-25)**

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	04/12/2022	ND	2.09	104	2.00	0.422		
Toluene*	0.069	0.050	04/12/2022	ND	2.09	105	2.00	0.728		
Ethylbenzene*	0.548	0.050	04/12/2022	ND	2.09	104	2.00	1.48		
Total Xylenes*	0.741	0.150	04/12/2022	ND	6.18	103	6.00	0.794	GC-NC1	
Total BTEX	1.36	0.300	04/12/2022	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	04/12/2022	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*	28.4	10.0	04/12/2022	ND	190	94.9	200	4.16	
DRO >C10-C28*	1340	10.0	04/12/2022	ND	193	96.3	200	2.61	
EXT DRO >C28-C36	460	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 91.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 128 % 59.5-142

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**Analytical Results For:**

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

Received: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 120 @ 8" (H221427-26)**

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	04/12/2022	ND	2.09	104	2.00	0.422	
Toluene*	0.054	0.050	04/12/2022	ND	2.09	105	2.00	0.728	
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	2.09	104	2.00	1.48	
Total Xylenes*	<0.150	0.150	04/12/2022	ND	6.18	103	6.00	0.794	
Total BTEx	<0.300	0.300	04/12/2022	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	1410	16.0	04/12/2022	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	04/12/2022	ND	190	94.9	200	4.16	
DRO >C10-C28*	901	10.0	04/12/2022	ND	193	96.3	200	2.61	
EXT DRO >C28-C36	234	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 80.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 111 % 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: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 121 @ 8" (H221427-27)**

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	04/12/2022	ND	2.09	104	2.00	0.422		
Toluene*	<0.050	0.050	04/12/2022	ND	2.09	105	2.00	0.728		
Ethylbenzene*	0.322	0.050	04/12/2022	ND	2.09	104	2.00	1.48		
Total Xylenes*	0.543	0.150	04/12/2022	ND	6.18	103	6.00	0.794	GC-NC1	
Total BTEX	0.864	0.300	04/12/2022	ND						GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	912	16.0	04/12/2022	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*	33.0	10.0	04/12/2022	ND	190	94.9	200	4.16		
DRO >C10-C28*	1560	10.0	04/12/2022	ND	193	96.3	200	2.61		
EXT DRO >C28-C36	316	10.0	04/12/2022	ND						

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 145 % 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: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 122 @ 8" (H221427-28)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2022	ND	2.09	104	2.00	0.422	
Toluene*	<0.050	0.050	04/12/2022	ND	2.09	105	2.00	0.728	
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	2.09	104	2.00	1.48	
Total Xylenes*	<0.150	0.150	04/12/2022	ND	6.18	103	6.00	0.794	
Total BTX	<0.300	0.300	04/12/2022	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	528	16.0	04/12/2022	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	04/12/2022	ND	190	94.9	200	4.16	
DRO >C10-C28*	215	10.0	04/12/2022	ND	193	96.3	200	2.61	
EXT DRO >C28-C36	66.8	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 83.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.4 % 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: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 123 @ 8" (H221427-29)**

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2022	ND	1.92	96.0	2.00	9.51	
Toluene*	<0.050	0.050	04/12/2022	ND	1.92	96.0	2.00	9.73	
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	1.83	91.5	2.00	9.71	
Total Xylenes*	<0.150	0.150	04/12/2022	ND	5.71	95.2	6.00	9.45	
Total BTX	<0.300	0.300	04/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	1580	16.0	04/12/2022	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	04/12/2022	ND	190	94.9	200	4.16	
DRO >C10-C28*	596	10.0	04/12/2022	ND	193	96.3	200	2.61	
EXT DRO >C28-C36	141	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 84.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 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: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 124 @ 8" (H221427-30)**

BTEx 8021B		mg/kg	Analyzed By: MS/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.077</b>	0.050	04/12/2022	ND	1.92	96.0	2.00	9.51	
<b>Toluene*</b>	<b>0.182</b>	0.050	04/12/2022	ND	1.92	96.0	2.00	9.73	
<b>Ethylbenzene*</b>	<b>0.140</b>	0.050	04/12/2022	ND	1.83	91.5	2.00	9.71	
<b>Total Xylenes*</b>	<b>0.543</b>	0.150	04/12/2022	ND	5.71	95.2	6.00	9.45	GC-NC1
<b>Total BTEx</b>	<b>0.942</b>	0.300	04/12/2022	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 143 % 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
<b>Chloride</b>	<b>3800</b>	16.0	04/12/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>92.1</b>	50.0	04/12/2022	ND	190	94.9	200	4.16	
<b>DRO &gt;C10-C28*</b>	<b>5460</b>	50.0	04/12/2022	ND	193	96.3	200	2.61	
<b>EXT DRO &gt;C28-C36</b>	<b>1150</b>	50.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 138 % 66.9-136

Surrogate: 1-Chlorooctadecane 304 % 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: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 111 @ 8" (H221427-31)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2022	ND	1.92	96.0	2.00	9.51		
Toluene*	<0.050	0.050	04/12/2022	ND	1.92	96.0	2.00	9.73		
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	1.83	91.5	2.00	9.71		
Total Xylenes*	<0.150	0.150	04/12/2022	ND	5.71	95.2	6.00	9.45		
Total BTEX	<0.300	0.300	04/12/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/12/2022	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	04/11/2022	ND	190	94.9	200	4.16	
DRO >C10-C28*	624	10.0	04/11/2022	ND	193	96.3	200	2.61	
EXT DRO >C28-C36	118	10.0	04/11/2022	ND					

Surrogate: 1-Chlorooctane 90.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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**Analytical Results For:**

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

Received: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 112 @ 8" (H221427-32)**

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2022	ND	1.92	96.0	2.00	9.51	
Toluene*	<0.050	0.050	04/12/2022	ND	1.92	96.0	2.00	9.73	
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	1.83	91.5	2.00	9.71	
Total Xylenes*	<0.150	0.150	04/12/2022	ND	5.71	95.2	6.00	9.45	
Total BTX	<0.300	0.300	04/12/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	04/12/2022	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*	11.0	10.0	04/12/2022	ND	190	94.9	200	4.16	
DRO >C10-C28*	1340	10.0	04/12/2022	ND	193	96.3	200	2.61	
EXT DRO >C28-C36	279	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 99.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 134 % 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: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 113 @ 8" (H221427-33)**

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2022	ND	1.92	96.0	2.00	9.51	
Toluene*	<0.050	0.050	04/12/2022	ND	1.92	96.0	2.00	9.73	
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	1.83	91.5	2.00	9.71	
Total Xylenes*	<0.150	0.150	04/12/2022	ND	5.71	95.2	6.00	9.45	
Total BTX	<0.300	0.300	04/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	416	16.0	04/12/2022	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	04/12/2022	ND	190	94.9	200	4.16	
DRO >C10-C28*	875	10.0	04/12/2022	ND	193	96.3	200	2.61	
EXT DRO >C28-C36	182	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 96.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/07/2022  
 Reported: 04/13/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 114 @ 8" (H221427-34)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2022	ND	2.02	101	2.00	6.51		
Toluene*	<0.050	0.050	04/12/2022	ND	2.02	101	2.00	6.85		
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	2.00	100	2.00	6.87		
Total Xylenes*	<0.150	0.150	04/12/2022	ND	6.19	103	6.00	7.36		
Total BTEx	<0.300	0.300	04/12/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	04/12/2022	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	04/11/2022	ND	190	94.9	200	4.16	
DRO >C10-C28*	79.1	10.0	04/11/2022	ND	193	96.3	200	2.61	
EXT DRO >C28-C36	12.5	10.0	04/11/2022	ND					

Surrogate: 1-Chlorooctane 90.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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

---

Celey D. Keene, Lab Director/Quality Manager



No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1+3

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

Company Name: <u>Etech Environmental &amp; Safety Solutions, Inc.</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: <u>Lance Crenshaw</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>											
Address: <u>2617 W. Marland</u>				Company: <u>Menbourne</u>															
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn: <u>Robbie Runnels</u>															
Phone #: <u>(575) 396-2378</u> Fax #: <u>(575) 396-1429</u>				Address:															
Project #: <u>15286</u> Project Owner: <u>Robbie Runnels</u>				City:															
Project Name: <u>White Federal 1</u>				State: Zip:															
Project Location: <u>Menbourne Oil Company</u>				Phone #:															
Sampler Name: <u>Eric Mojica</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/ SOOL	OTHER:	DATE	TIME					
<u>H221427</u>																			
1	<u>FS91e8in.</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>4.7.22</u>						
2	<u>FS92e8in.</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>									
3	<u>FS93e8in.</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>									
4	<u>FS94e8in.</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>									
5	<u>FS95e8in.</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>									
6	<u>FS96e8in.</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>									
7	<u>FS97e8in.</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>									
8	<u>FS98e8in.</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>									
9	<u>FS99e8in.</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>									
10	<u>FS100e8in.</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>									

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Relinquished By: <u>Eric Mojica</u>		Date: <u>4-7-22</u>	Received By: <u>Heather Rodriguez</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: <u>11:08</u>			All Results are emailed. Please provide Email address:	
Relinquished By:		Date:	Received By:		REMARKS:	
		Time:				
Delivered By: (Circle One)	Observed Temp. °C <u>59.8</u>	Sample Condition	CHECKED BY: (Initials) <u>SR</u>	Turnaround Time: <u>Standard</u>	Bacteria (only) Sample Condition	
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>54.2</u>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #113	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
				Correction Factor -0.5°C	Observed Temp. °C	
					Corrected Temp. °C	

FORM 006 R 3.2 10/07/21

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









No Rush

## ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3. f3

~~Page 39 of 40~~[illegible]



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Ech Environmental &amp; Safety Sol. Inc.</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: <u>Lance Crenshaw</u>				P.O. #:															
Address: <u>P.O. Box 301</u>				Company: <u>Mewbourne</u>															
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn: <u>Robbie Runnels</u>															
Phone #: <u>575-396-2378</u> Fax #: <u>575-396-1429</u>				Address:															
Project #: <u>15286</u> Project Owner: <u>Robbie Runnels</u>				City:															
Project Name: <u>White Federal 1</u>				State: Zip:															
Project Location: <u>Mewbourne Oil Company</u>				Phone #:															
Sampler Name: <u>Eric Mojica</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME					
<u>H021427</u>																			
<u>31</u>	<u>FS 111 @ 8 in.</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>4-7-22</u>		<u>CL</u>				
<u>32</u>	<u>FS 112 @ 8 in.</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>					<u>TPH</u>				
<u>33</u>	<u>FS 113 @ 8 in.</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>					<u>BTEX</u>				
<u>34</u>	<u>FS 114 @ 8 in.</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>									

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Relinquished By:	Date: <u>4-7-22</u>	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
	Time: <u>11:08</u>	<u>S Rod Riquenz</u>	All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		
Delivered By: (Circle One)	Observed Temp. °C <u>5.98</u>	Sample Condition	Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> <u>Rush</u> <input type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>5.40</u>	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	Bacteria (only) Sample Condition
		CHECKED BY: (Initials) <u>SR</u>	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
			Thermometer ID #113 Correction Factor -0.5°C
			Observed Temp. °C
			Corrected Temp. °C

FORM-006 R 5.2 10/07/21

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





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

---

April 18, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WHITE FEDERAL 1

Enclosed are the results of analyses for samples received by the laboratory on 04/08/22 15:48.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/08/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 125 @ 8" (H221455-01)**

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	04/14/2022	ND	2.11	105	2.00	3.83		
Toluene*	<0.050	0.050	04/14/2022	ND	2.10	105	2.00	3.93		
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.08	104	2.00	4.47		
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.42	107	6.00	3.56		
Total BTEx	<0.300	0.300	04/14/2022	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	464	16.0	04/14/2022	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	04/13/2022	ND	198	99.0	200	11.1	
DRO >C10-C28*	1600	10.0	04/13/2022	ND	224	112	200	12.1	QM-07
EXT DRO >C28-C36	376	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 97.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 123 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/08/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 126 @ 8" (H221455-02)**

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	04/14/2022	ND	2.11	105	2.00	3.83	
Toluene*	<0.050	0.050	04/14/2022	ND	2.10	105	2.00	3.93	
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.08	104	2.00	4.47	
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.42	107	6.00	3.56	
Total BTEx	<0.300	0.300	04/14/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	04/14/2022	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	04/13/2022	ND	198	99.0	200	11.1	
DRO >C10-C28*	706	10.0	04/13/2022	ND	224	112	200	12.1	
EXT DRO >C28-C36	234	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 91.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 111 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 04/08/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 127 @ 8" (H221455-03)**

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	04/14/2022	ND	2.11	105	2.00	3.83		
Toluene*	<0.050	0.050	04/14/2022	ND	2.10	105	2.00	3.93		
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.08	104	2.00	4.47		
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.42	107	6.00	3.56		
Total BTEX	<0.300	0.300	04/14/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1260	16.0	04/14/2022	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	04/13/2022	ND	198	99.0	200	11.1	
DRO >C10-C28*	36.0	10.0	04/13/2022	ND	224	112	200	12.1	
EXT DRO >C28-C36	14.1	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 86.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/08/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 128 @ 8" (H221455-04)**

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	04/14/2022	ND	2.11	105	2.00	3.83	
Toluene*	<0.050	0.050	04/14/2022	ND	2.10	105	2.00	3.93	
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.08	104	2.00	4.47	
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.42	107	6.00	3.56	
Total BTEx	<0.300	0.300	04/14/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1250	16.0	04/14/2022	ND	416	104	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	198	99.0	200	11.1	
DRO >C10-C28*	91.9	10.0	04/14/2022	ND	224	112	200	12.1	
EXT DRO >C28-C36	104	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 93.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 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: 04/08/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 129 @ 8" (H221455-05)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2022	ND	2.11	105	2.00	3.83	
Toluene*	<0.050	0.050	04/14/2022	ND	2.10	105	2.00	3.93	
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.08	104	2.00	4.47	
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.42	107	6.00	3.56	
Total BTX	<0.300	0.300	04/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	2960	16.0	04/14/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	198	99.0	200	11.1	
DRO >C10-C28*	783	10.0	04/13/2022	ND	224	112	200	12.1	
EXT DRO >C28-C36	276	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 88.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 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: 04/08/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 130 @ 8" (H221455-06)**

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	04/14/2022	ND	2.11	105	2.00	3.83		
Toluene*	<0.050	0.050	04/14/2022	ND	2.10	105	2.00	3.93		
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.08	104	2.00	4.47		
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.42	107	6.00	3.56		
Total BTEx	<0.300	0.300	04/14/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1170	16.0	04/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	198	99.0	200	11.1	
DRO >C10-C28*	339	10.0	04/13/2022	ND	224	112	200	12.1	
EXT DRO >C28-C36	150	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 91.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 120 % 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: 04/08/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 131 @ 8" (H221455-07)**

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.094	0.050	04/14/2022	ND	2.11	105	2.00	3.83	
Toluene*	0.218	0.050	04/14/2022	ND	2.10	105	2.00	3.93	
Ethylbenzene*	0.126	0.050	04/14/2022	ND	2.08	104	2.00	4.47	
Total Xylenes*	0.335	0.150	04/14/2022	ND	6.42	107	6.00	3.56	
Total BTEX	0.773	0.300	04/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 139 % 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	1170	16.0	04/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	66.8	50.0	04/14/2022	ND	198	99.0	200	11.1	
DRO >C10-C28*	4800	50.0	04/14/2022	ND	224	112	200	12.1	
EXT DRO >C28-C36	1160	50.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 117 % 66.9-136

Surrogate: 1-Chlorooctadecane 157 % 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: 04/08/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 132 @ 8" (H221455-08)**

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	04/14/2022	ND	2.11	105	2.00	3.83		
Toluene*	<0.050	0.050	04/14/2022	ND	2.10	105	2.00	3.93		
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.08	104	2.00	4.47		
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.42	107	6.00	3.56		
Total BTEx	<0.300	0.300	04/14/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	04/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	198	99.0	200	11.1	
DRO >C10-C28*	75.8	10.0	04/13/2022	ND	224	112	200	12.1	
EXT DRO >C28-C36	30.5	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 81.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.5 % 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: 04/08/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 133 @ 8" (H221455-09)**

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	04/14/2022	ND	2.17	109	2.00	7.42		
Toluene*	<0.050	0.050	04/14/2022	ND	2.17	108	2.00	7.02		
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.14	107	2.00	6.82		
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.60	110	6.00	6.85		
Total BTEX	<0.300	0.300	04/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	1180	16.0	04/14/2022	ND	416	104	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	198	99.0	200	11.1		
DRO >C10-C28*	373	10.0	04/13/2022	ND	224	112	200	12.1		
EXT DRO >C28-C36	151	10.0	04/13/2022	ND						

Surrogate: 1-Chlorooctane 97.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 122 % 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: 04/08/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 134 @ 8" (H221455-10)**

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	04/13/2022	ND	2.17	108	2.00	1.57		
Toluene*	<0.050	0.050	04/13/2022	ND	2.16	108	2.00	2.65		
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.14	107	2.00	1.85		
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.58	110	6.00	1.67		
Total BTEX	<0.300	0.300	04/13/2022	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	1960	16.0	04/14/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	198	99.0	200	11.1	
DRO >C10-C28*	663	10.0	04/14/2022	ND	224	112	200	12.1	
EXT DRO >C28-C36	551	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 96.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 126 % 59.5-142

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**Analytical Results For:**

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 HOBBS NM, 88240  
 Fax To:

Received: 04/08/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 135 @ 8" (H221455-11)**

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	04/13/2022	ND	2.17	108	2.00	1.57	
Toluene*	0.052	0.050	04/13/2022	ND	2.16	108	2.00	2.65	
Ethylbenzene*	0.057	0.050	04/13/2022	ND	2.14	107	2.00	1.85	
Total Xylenes*	0.273	0.150	04/13/2022	ND	6.58	110	6.00	1.67	
Total BTEX	0.382	0.300	04/13/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1500	16.0	04/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	198	99.0	200	11.1	
DRO >C10-C28*	1610	10.0	04/14/2022	ND	224	112	200	12.1	
EXT DRO >C28-C36	556	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 135 % 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: 04/08/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 136 @ 8" (H221455-12)**

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	04/13/2022	ND	2.17	108	2.00	1.57		
Toluene*	<0.050	0.050	04/13/2022	ND	2.16	108	2.00	2.65		
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.14	107	2.00	1.85		
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.58	110	6.00	1.67		
Total BTEX	<0.300	0.300	04/13/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	04/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	198	99.0	200	11.1	
DRO >C10-C28*	25.8	10.0	04/13/2022	ND	224	112	200	12.1	
EXT DRO >C28-C36	11.8	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 99.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 117 % 59.5-142

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**Analytical Results For:**

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

Received: 04/08/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 137 @ 8" (H221455-13)**

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	04/13/2022	ND	2.17	108	2.00	1.57	
Toluene*	0.086	0.050	04/13/2022	ND	2.16	108	2.00	2.65	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.14	107	2.00	1.85	
Total Xylenes*	0.429	0.150	04/13/2022	ND	6.58	110	6.00	1.67	
Total BTEX	0.515	0.300	04/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	432	16.0	04/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	25.1	10.0	04/13/2022	ND	198	99.0	200	11.1	
DRO >C10-C28*	1800	10.0	04/13/2022	ND	224	112	200	12.1	
EXT DRO >C28-C36	453	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 125 % 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: 04/08/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 138 @ 8" (H221455-14)**

BTEx 8021B		mg/kg		Analyzed By: MS\				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2022	ND	2.17	108	2.00	1.57	
Toluene*	0.315	0.050	04/13/2022	ND	2.16	108	2.00	2.65	
Ethylbenzene*	1.08	0.050	04/13/2022	ND	2.14	107	2.00	1.85	
Total Xylenes*	4.82	0.150	04/13/2022	ND	6.58	110	6.00	1.67	
Total BTEX	6.21	0.300	04/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 191 % 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	<b>1890</b>	16.0	04/14/2022	ND	416	104	400	0.00	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>284</b>	10.0	04/14/2022	ND	198	99.0	200	11.1	
DRO >C10-C28*	<b>5100</b>	10.0	04/14/2022	ND	224	112	200	12.1	
EXT DRO >C28-C36	<b>1010</b>	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 128 % 66.9-136

Surrogate: 1-Chlorooctadecane 139 % 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: 04/08/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 10 (H221455-15)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2022	ND	2.17	108	2.00	1.57	
Toluene*	<0.050	0.050	04/13/2022	ND	2.16	108	2.00	2.65	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.14	107	2.00	1.85	
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.58	110	6.00	1.67	
Total BTX	<0.300	0.300	04/13/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	04/14/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	198	99.0	200	11.1	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	224	112	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 92.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 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: 04/08/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 11 (H221455-16)**

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	04/13/2022	ND	2.17	108	2.00	1.57		
Toluene*	<0.050	0.050	04/13/2022	ND	2.16	108	2.00	2.65		
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.14	107	2.00	1.85		
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.58	110	6.00	1.67		
Total BTEX	<0.300	0.300	04/13/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	198	99.0	200	11.1	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	224	112	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 85.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.0 % 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: 04/08/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 12 (H221455-17)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2022	ND	2.17	108	2.00	1.57		
Toluene*	<0.050	0.050	04/13/2022	ND	2.16	108	2.00	2.65		
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.14	107	2.00	1.85		
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.58	110	6.00	1.67		
Total BTX	<0.300	0.300	04/13/2022	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	32.0	16.0	04/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	198	99.0	200	11.1	
DRO >C10-C28*	11.8	10.0	04/13/2022	ND	224	112	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 93.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 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: 04/08/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 13 (H221455-18)**

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	04/13/2022	ND	2.12	106	2.00	6.97	
Toluene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	6.43	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.01	100	2.00	6.66	
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.19	103	6.00	6.18	
Total BTEX	<0.300	0.300	04/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	80.0	16.0	04/14/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	198	99.0	200	11.1	
DRO >C10-C28*	465	10.0	04/13/2022	ND	224	112	200	12.1	
EXT DRO >C28-C36	867	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 94.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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**Analytical Results For:**

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

Received: 04/08/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 8 (H221455-19)**

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	04/13/2022	ND	2.20	110	2.00	10.5	
Toluene*	<0.050	0.050	04/13/2022	ND	2.20	110	2.00	9.79	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	10.3	
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.54	109	6.00	10.1	
Total BTEX	<0.300	0.300	04/13/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	04/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	198	99.0	200	11.1	
DRO >C10-C28*	153	10.0	04/13/2022	ND	224	112	200	12.1	
EXT DRO >C28-C36	122	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 94.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 116 % 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: 04/08/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 9 (H221455-20)**

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2022	ND	2.20	110	2.00	10.5	
Toluene*	<0.050	0.050	04/13/2022	ND	2.20	110	2.00	9.79	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	10.3	
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.54	109	6.00	10.1	
Total BTX	<0.300	0.300	04/13/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	04/14/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	198	99.0	200	11.1	
DRO >C10-C28*	656	10.0	04/13/2022	ND	224	112	200	12.1	
EXT DRO >C28-C36	173	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 86.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 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: 04/08/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NW 2 (H221455-21)**

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	04/13/2022	ND	2.20	110	2.00	10.5	
Toluene*	<0.050	0.050	04/13/2022	ND	2.20	110	2.00	9.79	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	10.3	
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.54	109	6.00	10.1	
Total BTEX	<0.300	0.300	04/13/2022	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	32.0	16.0	04/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	189	94.6	200	8.50	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	220	110	200	8.51	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 124 % 66.9-136

Surrogate: 1-Chlorooctadecane 139 % 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: 04/08/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NW 3 (H221455-22)**

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	04/13/2022	ND	2.20	110	2.00	10.5		
Toluene*	<0.050	0.050	04/13/2022	ND	2.20	110	2.00	9.79		
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	10.3		
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.54	109	6.00	10.1		
Total BTEX	<0.300	0.300	04/13/2022	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	32.0	16.0	04/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	189	94.6	200	8.50	
DRO >C10-C28*	<10.0	10.0	04/13/2022	ND	220	110	200	8.51	
EXT DRO >C28-C36	<10.0	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 04/08/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 10 (H221455-23)**

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2022	ND	2.20	110	2.00	10.5	
Toluene*	<0.050	0.050	04/13/2022	ND	2.20	110	2.00	9.79	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	10.3	
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.54	109	6.00	10.1	
Total BTX	<0.300	0.300	04/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	3840	16.0	04/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	189	94.6	200	8.50	
DRO >C10-C28*	511	10.0	04/13/2022	ND	220	110	200	8.51	
EXT DRO >C28-C36	170	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 140 % 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: 04/08/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 11 (H221455-24)**

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	04/13/2022	ND	2.20	110	2.00	10.5	
Toluene*	<0.050	0.050	04/13/2022	ND	2.20	110	2.00	9.79	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	10.3	
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.54	109	6.00	10.1	
Total BTEX	<0.300	0.300	04/13/2022	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	1280	16.0	04/14/2022	ND	400	100	400	3.92	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	189	94.6	200	8.50	
DRO >C10-C28*	1670	10.0	04/13/2022	ND	220	110	200	8.51	
EXT DRO >C28-C36	497	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 255 % 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: 04/08/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/08/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 12 (H221455-25)**

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2022	ND	2.20	110	2.00	10.5		
Toluene*	<0.050	0.050	04/13/2022	ND	2.20	110	2.00	9.79		
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	10.3		
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.54	109	6.00	10.1		
Total BTX	<0.300	0.300	04/13/2022	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	336	16.0	04/14/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2022	ND	189	94.6	200	8.50	
DRO >C10-C28*	22.8	10.0	04/13/2022	ND	220	110	200	8.51	
EXT DRO >C28-C36	13.5	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 100 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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---

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

---

Celey D. Keene, Lab Director/Quality Manager







# CARDINAL LABORATORIES

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

No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

Page 29 of 30

Company Name: Etech Environmental & Safety Solutions, Inc.										<b>BILL TO</b>										<b>ANALYSIS REQUEST</b>									
Project Manager: Lance Crenshaw										P.O. #:										<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>									
Address: P.O. Box 301										Company: Mewbourne																			
City: <del>Levington</del> Hobbs State: NM Zip: 88240										Attn: Robbie Runnels																			
Phone #: (575) 396-2378 Fax #: (575) 396-1429										Address:																			
Project #: 15286 Project Owner: Robbie Runnels										City:																			
Project Name: White Federal 1										State: Zip:																			
Project Location: Mewbourne Oil Company										Phone #:																			
Sampler Name: Eric Mojica										Fax #:																			
FOR LAB USE ONLY																													
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE	ICE / COOL	OTHER :	DATE	TIME													
H221455																													
11 FS135e8in.				C	1			✓					✓		4-8-22		✓	✓	✓										
12 FS136e8in.				C	1			✓					✓				✓	✓	✓										
13 FS137e8in.				C	1			✓					✓				✓	✓	✓										
14 FS138e8in.				C	1			✓					✓				✓	✓	✓										
15 WW10				C	1			✓					✓				✓	✓	✓										
16 WW11				C	1			✓					✓				✓	✓	✓										
17 WW12				C	1			✓					✓				✓	✓	✓										
18 WW13				C	1			✓					✓				✓	✓	✓										
19 EW8				C	1			✓					✓				✓	✓	✓										
20 EW9				C	1			✓					✓				✓	✓	✓										

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Relinquished By: Eric Mojica	Date: 4-8-22 Time: 1548	Received By: [Signature]	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: Add'l Fax #:
Relinquished By:	Date: Time:	Received By:	REMARKS:	
Delivered By: (Circle One) 4.02 C-0.5g Sampler - UPS - Bus - Other: 358 #113			Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
CHECKED BY: [Signature]			Please email results to pm@etechenv.com.	





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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 3

Page 30 of 30

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: P.O. Box 301				Company: Mewbourne																							
City: Lovington Hobbs State: NM Zip: 88240-88240				Attn: Robbie Runnels																							
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																							
Project #: 15286 Project Owner: Robbie Runnels				City:																							
Project Name: White Federal 1				State: Zip:																							
Project Location: Mewbourne Oil Company				Phone #:																							
Sampler Name: Eric Mojica				Fax #:																							
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / GEL	OTHER:	DATE	TIME													
H0021455																											
21	NW 2	C	1										4-8-22		✓	✓	✓										
22	NW 3	C	1												✓	✓	✓										
23	EW 10	C	1												✓	✓	✓										
24	EW 11	C	1												✓	✓	✓										
25	EW 12	C	1												✓	✓	✓										
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Relinquished By: Eric Mojica				Date: 4-8-22		Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:															
				Time: 1548						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:															
Relinquished By:				Date:		Received By:				REMARKS:																	
				Time:						Please email results to pm@etechenv.com.																	
Delivered By: (Circle One)				4.0g		C-0.5g		Sample Condition		CHECKED BY:																	
Sampler - UPS - Bus - Other:				3.5g #113				Cool Intact		(Initials)																	
								<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		[Signature]																	



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---

April 18, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WHITE FEDERAL 1

Enclosed are the results of analyses for samples received by the laboratory on 04/11/22 16:03.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 15 @ 4' (H221484-01)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	224	112	200	3.12	
<b>DRO &gt;C10-C28*</b>	<b>26.8</b>	10.0	04/14/2022	ND	228	114	200	2.20	
<b>EXT DRO &gt;C28-C36</b>	<b>11.1</b>	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 84.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

**Sample ID: FS 18 @ 3' (H221484-02)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	224	112	200	3.12	
<b>DRO &gt;C10-C28*</b>	<b>21.9</b>	10.0	04/14/2022	ND	228	114	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 123 % 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: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 19 @ 2' (H221484-03)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	224	112	200	3.12	
<b>DRO &gt;C10-C28*</b>	<b>25.7</b>	10.0	04/14/2022	ND	228	114	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					
Surrogate: 1-Chlorooctane	83.4 %	66.9-136							
Surrogate: 1-Chlorooctadecane	94.2 %	59.5-142							

**Sample ID: FS 20 @ 2' (H221484-04)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	224	112	200	3.12	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	228	114	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					
Surrogate: 1-Chlorooctane	101 %	66.9-136							
Surrogate: 1-Chlorooctadecane	115 %	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: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 21 @ 2' (H221484-05)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	189	94.5	200	8.21	
<b>DRO &gt;C10-C28*</b>	<b>10.7</b>	10.0	04/14/2022	ND	220	110	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					
Surrogate: 1-Chlorooctane	111 %	66.9-136							
Surrogate: 1-Chlorooctadecane	125 %	59.5-142							

**Sample ID: FS 23 @ 2' (H221484-06)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	189	94.5	200	8.21	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	220	110	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					
Surrogate: 1-Chlorooctane	111 %	66.9-136							
Surrogate: 1-Chlorooctadecane	122 %	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: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 24 @ 2' (H221484-07)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	189	94.5	200	8.21	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	220	110	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					
Surrogate: 1-Chlorooctane	115 %	66.9-136							
Surrogate: 1-Chlorooctadecane	127 %	59.5-142							

**Sample ID: FS 25 @ 2' (H221484-08)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	189	94.5	200	8.21	
DRO >C10-C28*	72.3	10.0	04/14/2022	ND	220	110	200	7.46	
EXT DRO >C28-C36	48.6	10.0	04/14/2022	ND					
Surrogate: 1-Chlorooctane	113 %	66.9-136							
Surrogate: 1-Chlorooctadecane	128 %	59.5-142							

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 49 @ 1.5' (H221484-09)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	189	94.5	200	8.21	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	220	110	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	111 %	66.9-136							
Surrogate: 1-Chlorooctadecane	125 %	59.5-142							

**Sample ID: FS 56 @ 1.5' (H221484-10)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	189	94.5	200	8.21	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	220	110	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					
Surrogate: 1-Chlorooctane	110 %	66.9-136							
Surrogate: 1-Chlorooctadecane	121 %	59.5-142							

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**Analytical Results For:**

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

Received: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 57 @ 1.5' (H221484-11)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	189	94.5	200	8.21	
<b>DRO &gt;C10-C28*</b>	<b>11.4</b>	10.0	04/14/2022	ND	220	110	200	7.46	
<b>EXT DRO &gt;C28-C36</b>	<b>13.9</b>	10.0	04/14/2022	ND					
Surrogate: 1-Chlorooctane	106 %	66.9-136							
Surrogate: 1-Chlorooctadecane	115 %	59.5-142							

**Sample ID: SW 3 B (H221484-12)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	189	94.5	200	8.21	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	220	110	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					
Surrogate: 1-Chlorooctane	113 %	66.9-136							
Surrogate: 1-Chlorooctadecane	125 %	59.5-142							

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**Analytical Results For:**

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 HOBBS NM, 88240  
 Fax To:

Received: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 139 @ 2' (H221484-13)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2022	ND	2.04	102	2.00	8.29		
Toluene*	<0.050	0.050	04/15/2022	ND	1.98	98.8	2.00	7.12		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.96	98.2	2.00	6.48		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	5.82	97.1	6.00	6.93		
Total BTX	<0.300	0.300	04/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	04/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	189	94.5	200	8.21	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	220	110	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 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: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 140 @ 2' (H221484-14)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2022	ND	2.04	102	2.00	8.29	
Toluene*	<0.050	0.050	04/15/2022	ND	1.98	98.8	2.00	7.12	
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.96	98.2	2.00	6.48	
Total Xylenes*	<0.150	0.150	04/15/2022	ND	5.82	97.1	6.00	6.93	
Total BTX	<0.300	0.300	04/15/2022	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	48.0	16.0	04/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	189	94.5	200	8.21	
DRO >C10-C28*	23.0	10.0	04/14/2022	ND	220	110	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 122 % 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: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 141 @ 2' (H221484-15)**

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	04/15/2022	ND	2.04	102	2.00	8.29		
Toluene*	<0.050	0.050	04/15/2022	ND	1.98	98.8	2.00	7.12		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.96	98.2	2.00	6.48		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	5.82	97.1	6.00	6.93		
Total BTEX	<0.300	0.300	04/15/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	189	94.5	200	8.21	
DRO >C10-C28*	31.9	10.0	04/14/2022	ND	220	110	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 125 % 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: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 142 @ 2' (H221484-16)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2022	ND	2.04	102	2.00	8.29		
Toluene*	<0.050	0.050	04/15/2022	ND	1.98	98.8	2.00	7.12		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.96	98.2	2.00	6.48		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	5.82	97.1	6.00	6.93		
Total BTX	<0.300	0.300	04/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	04/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	189	94.5	200	8.21	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	220	110	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 113 % 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: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 143 @ 2' (H221484-17)**

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	04/15/2022	ND	2.04	102	2.00	8.29	
Toluene*	<0.050	0.050	04/15/2022	ND	1.98	98.8	2.00	7.12	
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.96	98.2	2.00	6.48	
Total Xylenes*	<0.150	0.150	04/15/2022	ND	5.82	97.1	6.00	6.93	
Total BTEX	<0.300	0.300	04/15/2022	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	64.0	16.0	04/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	189	94.5	200	8.21	
DRO >C10-C28*	18.4	10.0	04/14/2022	ND	220	110	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 117 % 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: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 144 @ 2' (H221484-18)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2022	ND	2.04	102	2.00	8.29		
Toluene*	<0.050	0.050	04/15/2022	ND	1.98	98.8	2.00	7.12		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.96	98.2	2.00	6.48		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	5.82	97.1	6.00	6.93		
Total BTX	<0.300	0.300	04/15/2022	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	32.0	16.0	04/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	189	94.5	200	8.21	
DRO >C10-C28*	79.3	10.0	04/14/2022	ND	220	110	200	7.46	
EXT DRO >C28-C36	13.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 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: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 145 @ 2' (H221484-19)**

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	04/15/2022	ND	2.04	102	2.00	8.29		
Toluene*	<0.050	0.050	04/15/2022	ND	1.98	98.8	2.00	7.12		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.96	98.2	2.00	6.48		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	5.82	97.1	6.00	6.93		
Total BTEX	<0.300	0.300	04/15/2022	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	48.0	16.0	04/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	189	94.5	200	8.21	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	220	110	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 100 % 66.9-136

Surrogate: 1-Chlorooctadecane 117 % 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: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 146 @ 2' (H221484-20)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2022	ND	2.04	102	2.00	8.29		
Toluene*	<0.050	0.050	04/15/2022	ND	1.98	98.8	2.00	7.12		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.96	98.2	2.00	6.48		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	5.82	97.1	6.00	6.93		
Total BTX	<0.300	0.300	04/15/2022	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	04/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	189	94.5	200	8.21	
DRO >C10-C28*	68.6	10.0	04/14/2022	ND	220	110	200	7.46	
EXT DRO >C28-C36	12.4	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 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: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 147 @ 2' (H221484-21)**

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	04/15/2022	ND	2.04	102	2.00	8.29	
Toluene*	<0.050	0.050	04/15/2022	ND	1.98	98.8	2.00	7.12	
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.96	98.2	2.00	6.48	
Total Xylenes*	<0.150	0.150	04/15/2022	ND	5.82	97.1	6.00	6.93	
Total BTEX	<0.300	0.300	04/15/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	189	94.5	200	8.21	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	220	110	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 120 % 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: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 148 @ 2' (H221484-22)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2022	ND	2.04	102	2.00	8.29		
Toluene*	<0.050	0.050	04/15/2022	ND	1.98	98.8	2.00	7.12		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.96	98.2	2.00	6.48		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	5.82	97.1	6.00	6.93		
Total BTX	<0.300	0.300	04/15/2022	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	32.0	16.0	04/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	189	94.5	200	8.21	
DRO >C10-C28*	126	10.0	04/14/2022	ND	220	110	200	7.46	
EXT DRO >C28-C36	26.3	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 59.5-142

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 149 @ 2' (H221484-23)**

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	04/15/2022	ND	2.04	102	2.00	8.29		
Toluene*	<0.050	0.050	04/15/2022	ND	1.98	98.8	2.00	7.12		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.96	98.2	2.00	6.48		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	5.82	97.1	6.00	6.93		
Total BTEX	<0.300	0.300	04/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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	04/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	189	94.5	200	8.21	
DRO >C10-C28*	20.4	10.0	04/14/2022	ND	220	110	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 111 % 66.9-136

Surrogate: 1-Chlorooctadecane 124 % 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: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 150 @ 2' (H221484-24)**

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	04/15/2022	ND	2.04	102	2.00	8.29		
Toluene*	<0.050	0.050	04/15/2022	ND	1.98	98.8	2.00	7.12		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.96	98.2	2.00	6.48		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	5.82	97.1	6.00	6.93		
Total BTEX	<0.300	0.300	04/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	64.0	16.0	04/14/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	189	94.5	200	8.21	
DRO >C10-C28*	23.5	10.0	04/14/2022	ND	220	110	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 125 % 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: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 151 @ 2' (H221484-25)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2022	ND	2.04	102	2.00	8.29		
Toluene*	<0.050	0.050	04/15/2022	ND	1.98	98.8	2.00	7.12		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.96	98.2	2.00	6.48		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	5.82	97.1	6.00	6.93		
Total BTX	<0.300	0.300	04/15/2022	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	32.0	16.0	04/14/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	188	93.9	200	7.75	
DRO >C10-C28*	25.1	10.0	04/14/2022	ND	219	110	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

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**Analytical Results For:**

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

Received: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 152 @ 2' (H221484-26)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2022	ND	2.04	102	2.00	8.29	
Toluene*	<0.050	0.050	04/15/2022	ND	1.98	98.8	2.00	7.12	
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.96	98.2	2.00	6.48	
Total Xylenes*	<0.150	0.150	04/15/2022	ND	5.82	97.1	6.00	6.93	
Total BTX	<0.300	0.300	04/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	04/14/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2022	ND	188	93.9	200	7.75	
DRO >C10-C28*	57.6	10.0	04/18/2022	ND	219	110	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	04/18/2022	ND					

Surrogate: 1-Chlorooctane 123 % 66.9-136

Surrogate: 1-Chlorooctadecane 158 % 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: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 153 @ 2' (H221484-27)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2022	ND	2.04	102	2.00	8.29	
Toluene*	<0.050	0.050	04/15/2022	ND	1.98	98.8	2.00	7.12	
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.96	98.2	2.00	6.48	
Total Xylenes*	<0.150	0.150	04/15/2022	ND	5.82	97.1	6.00	6.93	
Total BTX	<0.300	0.300	04/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/14/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	188	93.9	200	7.75	
DRO >C10-C28*	14.9	10.0	04/14/2022	ND	219	110	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 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: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 154 @ 2' (H221484-28)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2022	ND	2.04	102	2.00	8.29		
Toluene*	<0.050	0.050	04/15/2022	ND	1.98	98.8	2.00	7.12		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.96	98.2	2.00	6.48		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	5.82	97.1	6.00	6.93		
Total BTX	<0.300	0.300	04/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/14/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	188	93.9	200	7.75	
DRO >C10-C28*	46.1	10.0	04/14/2022	ND	219	110	200	7.68	
EXT DRO >C28-C36	25.4	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 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: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 155 @ 2' (H221484-29)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2022	ND	2.08	104	2.00	0.932		
Toluene*	<0.050	0.050	04/15/2022	ND	2.07	104	2.00	1.06		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	2.04	102	2.00	0.298		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	6.31	105	6.00	0.503		
Total BTX	<0.300	0.300	04/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	04/14/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	188	93.9	200	7.75	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	219	110	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 123 % 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: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 156 @ 2' (H221484-30)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2022	ND	2.08	104	2.00	0.932		
Toluene*	<0.050	0.050	04/15/2022	ND	2.07	104	2.00	1.06		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	2.04	102	2.00	0.298		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	6.31	105	6.00	0.503		
Total BTX	<0.300	0.300	04/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	04/14/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	188	93.9	200	7.75	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	219	110	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 98.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 111 % 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: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 157 @ 2' (H221484-31)**

BTX 8021B			mg/kg							
			Analyzed By: MS\							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2022	ND	2.08	104	2.00	0.932		
Toluene*	<0.050	0.050	04/15/2022	ND	2.07	104	2.00	1.06		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	2.04	102	2.00	0.298		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	6.31	105	6.00	0.503		
Total BTX	<0.300	0.300	04/15/2022	ND						

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

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/14/2022	ND	432	108	400	3.77		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	188	93.9	200	7.75		
DRO >C10-C28*	42.7	10.0	04/14/2022	ND	219	110	200	7.68		
EXT DRO >C28-C36	13.9	10.0	04/14/2022	ND						

Surrogate: 1-Chlorooctane 116 % 66.9-136

Surrogate: 1-Chlorooctadecane 133 % 59.5-142

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**Analytical Results For:**

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

Received: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 158 @ 2' (H221484-32)**

BTX 8021B			mg/kg							
			Analyzed By: MS\							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2022	ND	2.08	104	2.00	0.932		
Toluene*	<0.050	0.050	04/15/2022	ND	2.07	104	2.00	1.06		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	2.04	102	2.00	0.298		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	6.31	105	6.00	0.503		
Total BTX	<0.300	0.300	04/15/2022	ND						

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

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/14/2022	ND	432	108	400	3.77		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	188	93.9	200	7.75		
DRO >C10-C28*	36.8	10.0	04/14/2022	ND	219	110	200	7.68		
EXT DRO >C28-C36	13.6	10.0	04/14/2022	ND						

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 127 % 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: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 159 @ 2' (H221484-33)**

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2022	ND	2.08	104	2.00	0.932	
Toluene*	<0.050	0.050	04/15/2022	ND	2.07	104	2.00	1.06	
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	2.04	102	2.00	0.298	
Total Xylenes*	<0.150	0.150	04/15/2022	ND	6.31	105	6.00	0.503	
Total BTEX	<0.300	0.300	04/15/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/14/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	188	93.9	200	7.75	
DRO >C10-C28*	42.8	10.0	04/14/2022	ND	219	110	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 123 % 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: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 160 @ 2' (H221484-34)**

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2022	ND	2.08	104	2.00	0.932	
Toluene*	<0.050	0.050	04/15/2022	ND	2.07	104	2.00	1.06	
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	2.04	102	2.00	0.298	
Total Xylenes*	<0.150	0.150	04/15/2022	ND	6.31	105	6.00	0.503	
Total BTEX	<0.300	0.300	04/15/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/14/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	188	93.9	200	7.75	
DRO >C10-C28*	74.1	10.0	04/14/2022	ND	219	110	200	7.68	
EXT DRO >C28-C36	14.2	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 132 % 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: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 161 @ 2' (H221484-35)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2022	ND	2.08	104	2.00	0.932		
Toluene*	<0.050	0.050	04/15/2022	ND	2.07	104	2.00	1.06		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	2.04	102	2.00	0.298		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	6.31	105	6.00	0.503		
Total BTEX	<0.300	0.300	04/15/2022	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	32.0	16.0	04/14/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	188	93.9	200	7.75	
DRO >C10-C28*	63.2	10.0	04/14/2022	ND	219	110	200	7.68	
EXT DRO >C28-C36	11.9	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 132 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 162 @ 2' (H221484-36)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2022	ND	2.08	104	2.00	0.932		
Toluene*	<0.050	0.050	04/15/2022	ND	2.07	104	2.00	1.06		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	2.04	102	2.00	0.298		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	6.31	105	6.00	0.503		
Total BTX	<0.300	0.300	04/15/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/14/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	188	93.9	200	7.75	
DRO >C10-C28*	28.4	10.0	04/14/2022	ND	219	110	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 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: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 163 @ 2' (H221484-37)**

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2022	ND	2.08	104	2.00	0.932	
Toluene*	<0.050	0.050	04/15/2022	ND	2.07	104	2.00	1.06	
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	2.04	102	2.00	0.298	
Total Xylenes*	<0.150	0.150	04/15/2022	ND	6.31	105	6.00	0.503	
Total BTEx	<0.300	0.300	04/15/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/14/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	188	93.9	200	7.75	
DRO >C10-C28*	78.6	10.0	04/14/2022	ND	219	110	200	7.68	
EXT DRO >C28-C36	22.4	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 115 % 66.9-136

Surrogate: 1-Chlorooctadecane 138 % 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: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 164 @ 2' (H221484-38)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2022	ND	2.08	104	2.00	0.932	
Toluene*	<0.050	0.050	04/15/2022	ND	2.07	104	2.00	1.06	
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	2.04	102	2.00	0.298	
Total Xylenes*	<0.150	0.150	04/15/2022	ND	6.31	105	6.00	0.503	
Total BTX	<0.300	0.300	04/15/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/14/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	188	93.9	200	7.75	
DRO >C10-C28*	43.5	10.0	04/14/2022	ND	219	110	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 127 % 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: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 165 @ 2' (H221484-39)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2022	ND	2.08	104	2.00	0.932		
Toluene*	<0.050	0.050	04/15/2022	ND	2.07	104	2.00	1.06		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	2.04	102	2.00	0.298		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	6.31	105	6.00	0.503		
Total BTX	<0.300	0.300	04/15/2022	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	32.0	16.0	04/14/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	188	93.9	200	7.75	
DRO >C10-C28*	47.8	10.0	04/14/2022	ND	219	110	200	7.68	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/11/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/11/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 166 @ 2' (H221484-40)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2022	ND	2.08	104	2.00	0.932		
Toluene*	<0.050	0.050	04/15/2022	ND	2.07	104	2.00	1.06		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	2.04	102	2.00	0.298		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	6.31	105	6.00	0.503		
Total BTX	<0.300	0.300	04/15/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/14/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	188	93.9	200	7.75	
DRO >C10-C28*	79.3	10.0	04/14/2022	ND	219	110	200	7.68	
EXT DRO >C28-C36	14.2	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 116 % 66.9-136

Surrogate: 1-Chlorooctadecane 138 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

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

---

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 4

## CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

Company Name: Etech Environmental &amp; Safety Solutions, Inc.

Project Manager: Lance Crenshaw

Address: P.O. Box 301

City: Lovington Hobbs

State: NM Zip: ~~88260~~ 88240

Phone #: (575) 396-2378

Fax #: (575) 396-1429

Project #: 15286

Project Owner: Robbie Runnels

Project Name: White Federal 1

Project Location: Mewbourne Oil Company

Sampler Name: Eric Mojica

## BILL TO

## ANALYSIS REQUEST

P.O. #:

Company: Mewbourne

Attn: Robbie Runnels

Address:

City:

State: Zip:

Phone #:

Fax #:

Chloride

TPH (8015M)

BTEX (8021B)

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:

PRESERV.

DATE

TIME

H221484

1 FS15e4

2 FS18e3

3 FS19e2

4 FS20e2

5 FS21e2

6 FS23e2

7 FS24e2

8 FS25e2

9 FS49e1 1/2

10 FS56e1 1/2

4-11-22

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Relinquished By:

Eric Mojica

Date:

4-11-22

Time:

1403

Received By:

Stodkiewicz

Date:

Received By:

Time:

Phone Result:

☐ Yes ☐ No

Fax Result:

☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Relinquished By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

H.O. C.D. 52

13.52 #113

Sample Condition

Cool Intact

☐ Yes ☒ No

CHECKED BY:

(Initials)

SR

Please email results to pm@etechenv.com.

FORM-006

Revision 1.0

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







No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3. f 4

## ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

[illegible]



No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4.f 4

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

[illegible]



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

---

April 18, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WHITE FEDERAL 1

Enclosed are the results of analyses for samples received by the laboratory on 04/12/22 15:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/12/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/12/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 65 @ 1.5' (H221509-01)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	209	105	200	2.78	
<b>DRO &gt;C10-C28*</b>	<b>111</b>	10.0	04/14/2022	ND	217	108	200	9.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 97.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

**Sample ID: FS 66 @ 1.5' (H221509-02)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	209	105	200	2.78	
<b>DRO &gt;C10-C28*</b>	<b>184</b>	10.0	04/14/2022	ND	217	108	200	9.58	
<b>EXT DRO &gt;C28-C36</b>	<b>32.7</b>	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 139 % 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: 04/12/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/12/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 67 @ 1.5' (H221509-03)**

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	209	105	200	2.78	
<b>DRO &gt;C10-C28*</b>	<b>265</b>	10.0	04/14/2022	ND	217	108	200	9.58	
<b>EXT DRO &gt;C28-C36</b>	<b>69.7</b>	10.0	04/14/2022	ND					
Surrogate: 1-Chlorooctane	110 %	66.9-136							
Surrogate: 1-Chlorooctadecane	151 %	59.5-142							

**Sample ID: FS 69 @ 1.5' (H221509-04)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	209	105	200	2.78	
<b>DRO &gt;C10-C28*</b>	<b>122</b>	10.0	04/14/2022	ND	217	108	200	9.58	
<b>EXT DRO &gt;C28-C36</b>	<b>12.8</b>	10.0	04/14/2022	ND					
Surrogate: 1-Chlorooctane	109 %	66.9-136							
Surrogate: 1-Chlorooctadecane	128 %	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: 04/12/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/12/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 80 @ 3' (H221509-05)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	209	105	200	2.78	
<b>DRO &gt;C10-C28*</b>	<b>18.6</b>	10.0	04/14/2022	ND	217	108	200	9.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					
Surrogate: 1-Chlorooctane	115 %	66.9-136							
Surrogate: 1-Chlorooctadecane	131 %	59.5-142							

**Sample ID: FS 83 @ 1.5' (H221509-06)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	209	105	200	2.78	
<b>DRO &gt;C10-C28*</b>	<b>569</b>	10.0	04/14/2022	ND	217	108	200	9.58	
<b>EXT DRO &gt;C28-C36</b>	<b>166</b>	10.0	04/14/2022	ND					
Surrogate: 1-Chlorooctane	99.2 %	66.9-136							
Surrogate: 1-Chlorooctadecane	137 %	59.5-142							

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/12/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/12/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 86 @ 1.5' (H221509-07)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	209	105	200	2.78	
<b>DRO &gt;C10-C28*</b>	<b>137</b>	10.0	04/14/2022	ND	217	108	200	9.58	
<b>EXT DRO &gt;C28-C36</b>	<b>27.2</b>	10.0	04/14/2022	ND					
Surrogate: 1-Chlorooctane	85.0 %	66.9-136							
Surrogate: 1-Chlorooctadecane	97.5 %	59.5-142							

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/12/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/12/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 167 @ 2' (H221509-08)**

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	04/14/2022	ND	2.10	105	2.00	5.90		
Toluene*	<0.050	0.050	04/14/2022	ND	2.08	104	2.00	5.57		
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.07	103	2.00	5.92		
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.39	106	6.00	6.09		
Total BTEX	<0.300	0.300	04/14/2022	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	96.0	16.0	04/14/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	209	105	200	2.78	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	217	108	200	9.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 120 % 59.5-142

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/12/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/12/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 168 @ 2' (H221509-09)**

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	04/14/2022	ND	2.10	105	2.00	5.90		
Toluene*	<0.050	0.050	04/14/2022	ND	2.08	104	2.00	5.57		
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.07	103	2.00	5.92		
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.39	106	6.00	6.09		
Total BTEx	<0.300	0.300	04/14/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/14/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	209	105	200	2.78	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	217	108	200	9.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 117 % 59.5-142

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**Analytical Results For:**

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

Received: 04/12/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/12/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 169 @ 2' (H221509-10)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2022	ND	2.10	105	2.00	5.90	
Toluene*	<0.050	0.050	04/14/2022	ND	2.08	104	2.00	5.57	
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.07	103	2.00	5.92	
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.39	106	6.00	6.09	
Total BTX	<0.300	0.300	04/14/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/14/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	209	105	200	2.78	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	217	108	200	9.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 98.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/12/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/12/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 170 @ 2' (H221509-11)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2022	ND	2.10	105	2.00	5.90	
Toluene*	<0.050	0.050	04/14/2022	ND	2.08	104	2.00	5.57	
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.07	103	2.00	5.92	
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.39	106	6.00	6.09	
Total BTX	<0.300	0.300	04/14/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/14/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	209	105	200	2.78	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	217	108	200	9.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 124 % 59.5-142

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/12/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/12/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 171 @ 2' (H221509-12)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2022	ND	2.10	105	2.00	5.90		
Toluene*	<0.050	0.050	04/14/2022	ND	2.08	104	2.00	5.57		
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.07	103	2.00	5.92		
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.39	106	6.00	6.09		
Total BTX	<0.300	0.300	04/14/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/14/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	209	105	200	2.78	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	217	108	200	9.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/12/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/12/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 172 @ 2' (H221509-13)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2022	ND	2.10	105	2.00	5.90		
Toluene*	<0.050	0.050	04/14/2022	ND	2.08	104	2.00	5.57		
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.07	103	2.00	5.92		
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.39	106	6.00	6.09		
Total BTX	<0.300	0.300	04/14/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/14/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	209	105	200	2.78	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	217	108	200	9.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 116 % 59.5-142

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**Analytical Results For:**

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

Received: 04/12/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/12/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 173 @ 2' (H221509-14)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2022	ND	2.10	105	2.00	5.90	
Toluene*	<0.050	0.050	04/14/2022	ND	2.08	104	2.00	5.57	
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.07	103	2.00	5.92	
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.39	106	6.00	6.09	
Total BTX	<0.300	0.300	04/14/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/14/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	209	105	200	2.78	
DRO >C10-C28*	11.2	10.0	04/14/2022	ND	217	108	200	9.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 117 % 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: 04/12/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/12/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 174 @ 2' (H221509-15)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2022	ND	2.10	105	2.00	5.90		
Toluene*	<0.050	0.050	04/14/2022	ND	2.08	104	2.00	5.57		
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.07	103	2.00	5.92		
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.39	106	6.00	6.09		
Total BTX	<0.300	0.300	04/14/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/14/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	209	105	200	2.78	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	217	108	200	9.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 113 % 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: 04/12/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/12/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 175 @ 2' (H221509-16)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2022	ND	2.10	105	2.00	5.90		
Toluene*	<0.050	0.050	04/14/2022	ND	2.08	104	2.00	5.57		
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.07	103	2.00	5.92		
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.39	106	6.00	6.09		
Total BTX	<0.300	0.300	04/14/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/14/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	209	105	200	2.78	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	217	108	200	9.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 99.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 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: 04/12/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/12/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 176 @ 2' (H221509-17)**

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	04/14/2022	ND	2.10	105	2.00	5.90		
Toluene*	<0.050	0.050	04/14/2022	ND	2.08	104	2.00	5.57		
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.07	103	2.00	5.92		
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.39	106	6.00	6.09		
Total BTEx	<0.300	0.300	04/14/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/14/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	209	105	200	2.78	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	217	108	200	9.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 116 % 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: 04/12/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/12/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 177 @ 2' (H221509-18)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2022	ND	2.10	105	2.00	5.90		
Toluene*	<0.050	0.050	04/14/2022	ND	2.08	104	2.00	5.57		
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.07	103	2.00	5.92		
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.39	106	6.00	6.09		
Total BTX	<0.300	0.300	04/14/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/14/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	209	105	200	2.78	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	217	108	200	9.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 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: 04/12/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/12/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 178 @ 2' (H221509-19)**

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	04/14/2022	ND	2.10	105	2.00	5.90		
Toluene*	<0.050	0.050	04/14/2022	ND	2.08	104	2.00	5.57		
Ethylbenzene*	<0.050	0.050	04/14/2022	ND	2.07	103	2.00	5.92		
Total Xylenes*	<0.150	0.150	04/14/2022	ND	6.39	106	6.00	6.09		
Total BTEx	<0.300	0.300	04/14/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	209	105	200	2.78	
DRO >C10-C28*	20.6	10.0	04/14/2022	ND	217	108	200	9.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 124 % 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: 04/12/2022  
 Reported: 04/18/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/12/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 179 @ 2' (H221509-20)**

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2022	ND	2.06	103	2.00	2.20		
Toluene*	<0.050	0.050	04/15/2022	ND	2.06	103	2.00	2.35		
Ethylbenzene*	<0.050	0.050	04/15/2022	ND	1.96	98.2	2.00	2.42		
Total Xylenes*	<0.150	0.150	04/15/2022	ND	6.11	102	6.00	1.91		
Total BTX	<0.300	0.300	04/15/2022	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	32.0	16.0	04/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2022	ND	209	105	200	2.78	
DRO >C10-C28*	<10.0	10.0	04/14/2022	ND	217	108	200	9.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2022	ND					

Surrogate: 1-Chlorooctane 120 % 66.9-136

Surrogate: 1-Chlorooctadecane 136 % 59.5-142

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager



No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

 $1. f \propto$ 

Page 20 of 21

## ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

[illegible]





## ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

 $2 \cdot f \tilde{\alpha}$ 

Page 21 of 24

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc. <b>Project Manager:</b> Lance Crenshaw <b>Address:</b> P.O. Box 301 <b>City:</b> <del>Lowington</del> Hobbs <b>State:</b> NM <b>Zip:</b> <del>88260</del> 88240 <b>Phone #:</b> (575) 396-2378 <b>Fax #:</b> (575) 396-1429 <b>Project #:</b> 15286 <b>Project Owner:</b> Robbie Runnels <b>Project Name:</b> White Federal 1 <b>Project Location:</b> Mewbourne Oil Company <b>Sampler Name:</b> Eric Mojica										<b>BILL TO</b>										<b>ANALYSIS REQUEST</b>																																																																																																																																																																																																							
<b>P.O. #:</b> <b>Company:</b> Mewbourne <b>Attn:</b> Robbie Runnels <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>										<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>																																																																																																																																																																																																																	
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="font-size: small;">FOR LAB USE ONLY</th> <th colspan="4" style="font-size: small;">MATRIX</th> <th colspan="2" style="font-size: small;">PRESERV.</th> <th colspan="2" style="font-size: small;">SAMPLING</th> </tr> <tr> <th style="font-size: small;">Lab I.D.</th> <th style="font-size: small;">Sample I.D.</th> <th style="font-size: small;">(G)RAB OR (C)OMP.</th> <th style="font-size: small;"># CONTAINERS</th> <th style="font-size: small;">GROUNDWATER</th> <th style="font-size: small;">WASTEWATER</th> <th style="font-size: small;">SOIL</th> <th style="font-size: small;">OIL</th> <th style="font-size: small;">SLUDGE</th> <th style="font-size: small;">OTHER :</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>																				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 :																																																																																																																																																																																				
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<b>Relinquished By:</b> <div style="font-family: cursive; font-size: 1.2em;">Eric Mojica</div>	<b>Date:</b> 4-12-22 <b>Time:</b> 1550	<b>Received By:</b> <div style="font-family: cursive; font-size: 1.2em;">Tamara Aldredge</div>	<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Add'l Phone #:</b> <b>Add'l Fax #:</b>
<b>REMARKS:</b>			<b>Delivered By: (Circle One)</b> 4.1°C    0-0.5°C Sampler - UPS - Bus - Other: 3.6°C #113	

**Sample Condition:**  
 Cool ☒ Intact ☒  
 Yes ☐ No ☐

**CHECKED BY:**  
 (Initials)  

T.D.

Please email results to [pm@etechenv.com](mailto:pm@etechenv.com).





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

---

April 19, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WHITE FEDERAL 1

Enclosed are the results of analyses for samples received by the laboratory on 04/13/22 15:53.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 94 @ 2' (H221548-01)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2022	ND	189	94.4	200	4.35	
<b>DRO &gt;C10-C28*</b>	<b>189</b>	10.0	04/18/2022	ND	183	91.3	200	4.32	
<b>EXT DRO &gt;C28-C36</b>	<b>40.3</b>	10.0	04/18/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	88.7 %	66.9-136							
Surrogate: 1-Chlorooctadecane	90.0 %	59.5-142							

**Sample ID: FS 95 @ 2' (H221548-02)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2022	ND	189	94.4	200	4.35	
<b>DRO &gt;C10-C28*</b>	<b>26.7</b>	10.0	04/18/2022	ND	183	91.3	200	4.32	
<b>EXT DRO &gt;C28-C36</b>	<b>12.0</b>	10.0	04/18/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	88.2 %	66.9-136							
Surrogate: 1-Chlorooctadecane	87.5 %	59.5-142							

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 110 @ 2' (H221548-03)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2022	ND	189	94.4	200	4.35	
<b>DRO &gt;C10-C28*</b>	<b>106</b>	10.0	04/18/2022	ND	183	91.3	200	4.32	
<b>EXT DRO &gt;C28-C36</b>	<b>41.6</b>	10.0	04/18/2022	ND					
Surrogate: 1-Chlorooctane	90.9 %	66.9-136							
Surrogate: 1-Chlorooctadecane	93.0 %	59.5-142							

**Sample ID: FS 112 @ 2' (H221548-04)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2022	ND	189	94.4	200	4.35	
<b>DRO &gt;C10-C28*</b>	<b>127</b>	10.0	04/18/2022	ND	183	91.3	200	4.32	
<b>EXT DRO &gt;C28-C36</b>	<b>42.0</b>	10.0	04/18/2022	ND					
Surrogate: 1-Chlorooctane	87.8 %	66.9-136							
Surrogate: 1-Chlorooctadecane	99.0 %	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: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 113 @ 2' (H221548-05)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2022	ND	189	94.4	200	4.35	
<b>DRO &gt;C10-C28*</b>	<b>44.7</b>	10.0	04/18/2022	ND	183	91.3	200	4.32	
<b>EXT DRO &gt;C28-C36</b>	<b>20.1</b>	10.0	04/18/2022	ND					
Surrogate: 1-Chlorooctane	87.2 %	66.9-136							
Surrogate: 1-Chlorooctadecane	91.5 %	59.5-142							

**Sample ID: FS 119 @ 2' (H221548-06)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2022	ND	189	94.4	200	4.35	
<b>DRO &gt;C10-C28*</b>	<b>238</b>	10.0	04/18/2022	ND	183	91.3	200	4.32	
<b>EXT DRO &gt;C28-C36</b>	<b>53.3</b>	10.0	04/18/2022	ND					
Surrogate: 1-Chlorooctane	81.5 %	66.9-136							
Surrogate: 1-Chlorooctadecane	92.4 %	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: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 120 @ 2' (H221548-07)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2022	ND	189	94.4	200	4.35	
DRO >C10-C28*	659	10.0	04/18/2022	ND	183	91.3	200	4.32	
EXT DRO >C28-C36	171	10.0	04/18/2022	ND					
Surrogate: 1-Chlorooctane	90.4 %	66.9-136							
Surrogate: 1-Chlorooctadecane	139 %	59.5-142							

**Sample ID: FS 121 @ 2' (H221548-08)**

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2022	ND	189	94.4	200	4.35	
DRO >C10-C28*	105	10.0	04/18/2022	ND	183	91.3	200	4.32	
EXT DRO >C28-C36	43.3	10.0	04/18/2022	ND					
Surrogate: 1-Chlorooctane	82.6 %	66.9-136							
Surrogate: 1-Chlorooctadecane	90.4 %	59.5-142							

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**Analytical Results For:**

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

Received: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 124 @ 2' (H221548-09)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2022	ND	189	94.4	200	4.35	
<b>DRO &gt;C10-C28*</b>	<b>232</b>	10.0	04/18/2022	ND	183	91.3	200	4.32	
<b>EXT DRO &gt;C28-C36</b>	<b>66.1</b>	10.0	04/18/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	93.5 %	66.9-136							
Surrogate: 1-Chlorooctadecane	107 %	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: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 180 @ 2' (H221548-10)**

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	04/18/2022	ND	2.15	108	2.00	6.30		
Toluene*	<0.050	0.050	04/18/2022	ND	2.15	108	2.00	6.93		
Ethylbenzene*	<0.050	0.050	04/18/2022	ND	2.14	107	2.00	6.22		
Total Xylenes*	<0.150	0.150	04/18/2022	ND	6.64	111	6.00	6.27		
Total BTEx	<0.300	0.300	04/18/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2022	ND	189	94.4	200	4.35	
DRO >C10-C28*	409	10.0	04/18/2022	ND	183	91.3	200	4.32	
EXT DRO >C28-C36	118	10.0	04/18/2022	ND					

Surrogate: 1-Chlorooctane 100 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 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: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 181 @ 2' (H221548-11)**

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	04/18/2022	ND	2.15	108	2.00	6.30	
Toluene*	<0.050	0.050	04/18/2022	ND	2.15	108	2.00	6.93	
Ethylbenzene*	<0.050	0.050	04/18/2022	ND	2.14	107	2.00	6.22	
Total Xylenes*	<0.150	0.150	04/18/2022	ND	6.64	111	6.00	6.27	
Total BTEx	<0.300	0.300	04/18/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2022	ND	189	94.4	200	4.35	
DRO >C10-C28*	<10.0	10.0	04/18/2022	ND	183	91.3	200	4.32	
EXT DRO >C28-C36	<10.0	10.0	04/18/2022	ND					

Surrogate: 1-Chlorooctane 99.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.5 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 182 @ 2' (H221548-12)**

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	04/18/2022	ND	2.15	108	2.00	6.30		
Toluene*	<0.050	0.050	04/18/2022	ND	2.15	108	2.00	6.93		
Ethylbenzene*	<0.050	0.050	04/18/2022	ND	2.14	107	2.00	6.22		
Total Xylenes*	<0.150	0.150	04/18/2022	ND	6.64	111	6.00	6.27		
Total BTEx	<0.300	0.300	04/18/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2022	ND	189	94.4	200	4.35	
DRO >C10-C28*	<10.0	10.0	04/18/2022	ND	183	91.3	200	4.32	
EXT DRO >C28-C36	<10.0	10.0	04/18/2022	ND					

Surrogate: 1-Chlorooctane 92.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 183 @ 2' (H221548-13)**

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	04/18/2022	ND	2.15	108	2.00	6.30		
Toluene*	<0.050	0.050	04/18/2022	ND	2.15	108	2.00	6.93		
Ethylbenzene*	<0.050	0.050	04/18/2022	ND	2.14	107	2.00	6.22		
Total Xylenes*	<0.150	0.150	04/18/2022	ND	6.64	111	6.00	6.27		
Total BTEX	<0.300	0.300	04/18/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2022	ND	189	94.4	200	4.35	
DRO >C10-C28*	<10.0	10.0	04/18/2022	ND	183	91.3	200	4.32	
EXT DRO >C28-C36	<10.0	10.0	04/18/2022	ND					

Surrogate: 1-Chlorooctane 95.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.3 % 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: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 184 @ 2' (H221548-14)**

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	04/18/2022	ND	2.15	108	2.00	6.30		
Toluene*	<0.050	0.050	04/18/2022	ND	2.15	108	2.00	6.93		
Ethylbenzene*	<0.050	0.050	04/18/2022	ND	2.14	107	2.00	6.22		
Total Xylenes*	<0.150	0.150	04/18/2022	ND	6.64	111	6.00	6.27		
Total BTEx	<0.300	0.300	04/18/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2022	ND	201	101	200	8.87	
DRO >C10-C28*	<10.0	10.0	04/18/2022	ND	222	111	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/18/2022	ND					

Surrogate: 1-Chlorooctane 99.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 185 @ 2' (H221548-15)**

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	04/18/2022	ND	2.15	108	2.00	6.30		
Toluene*	<0.050	0.050	04/18/2022	ND	2.15	108	2.00	6.93		
Ethylbenzene*	<0.050	0.050	04/18/2022	ND	2.14	107	2.00	6.22		
Total Xylenes*	<0.150	0.150	04/18/2022	ND	6.64	111	6.00	6.27		
Total BTEx	<0.300	0.300	04/18/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2022	ND	201	101	200	8.87	
DRO >C10-C28*	<10.0	10.0	04/18/2022	ND	222	111	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/18/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 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: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 186 @ 2' (H221548-16)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2022	ND	2.15	108	2.00	6.30		
Toluene*	<0.050	0.050	04/18/2022	ND	2.15	108	2.00	6.93		
Ethylbenzene*	<0.050	0.050	04/18/2022	ND	2.14	107	2.00	6.22		
Total Xylenes*	<0.150	0.150	04/18/2022	ND	6.64	111	6.00	6.27		
Total BTX	<0.300	0.300	04/18/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2022	ND	201	101	200	8.87	
DRO >C10-C28*	<10.0	10.0	04/18/2022	ND	222	111	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/18/2022	ND					

Surrogate: 1-Chlorooctane 95.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 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: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 187 @ 2' (H221548-17)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2022	ND	2.15	108	2.00	6.30		
Toluene*	<0.050	0.050	04/18/2022	ND	2.15	108	2.00	6.93		
Ethylbenzene*	<0.050	0.050	04/18/2022	ND	2.14	107	2.00	6.22		
Total Xylenes*	<0.150	0.150	04/18/2022	ND	6.64	111	6.00	6.27		
Total BTX	<0.300	0.300	04/18/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2022	ND	201	101	200	8.87	
DRO >C10-C28*	<10.0	10.0	04/18/2022	ND	222	111	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/18/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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**Analytical Results For:**

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

Received: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 188 @ 2' (H221548-18)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2022	ND	2.15	108	2.00	6.30	
Toluene*	<0.050	0.050	04/18/2022	ND	2.15	108	2.00	6.93	
Ethylbenzene*	<0.050	0.050	04/18/2022	ND	2.14	107	2.00	6.22	
Total Xylenes*	<0.150	0.150	04/18/2022	ND	6.64	111	6.00	6.27	
Total BTX	<0.300	0.300	04/18/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/19/2022	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	04/18/2022	ND	201	101	200	8.87	
DRO >C10-C28*	<10.0	10.0	04/18/2022	ND	222	111	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/18/2022	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



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**Analytical Results For:**

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

Received: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 189 @ 2' (H221548-19)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/18/2022	ND	2.15	108	2.00	6.30		
Toluene*	<0.050	0.050	04/18/2022	ND	2.15	108	2.00	6.93		
Ethylbenzene*	<0.050	0.050	04/18/2022	ND	2.14	107	2.00	6.22		
Total Xylenes*	<0.150	0.150	04/18/2022	ND	6.64	111	6.00	6.27		
Total BTX	<0.300	0.300	04/18/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/19/2022	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	04/18/2022	ND	201	101	200	8.87	
DRO >C10-C28*	<10.0	10.0	04/18/2022	ND	222	111	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/18/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 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: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 190 @ 2' (H221548-20)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.15	108	2.00	6.30	
Toluene*	<0.050	0.050	04/19/2022	ND	2.15	108	2.00	6.93	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.14	107	2.00	6.22	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.64	111	6.00	6.27	
Total BTX	<0.300	0.300	04/19/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/19/2022	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	04/18/2022	ND	201	101	200	8.87	
DRO >C10-C28*	<10.0	10.0	04/18/2022	ND	222	111	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/18/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 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: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 191 @ 2' (H221548-21)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.15	108	2.00	6.30	
Toluene*	<0.050	0.050	04/19/2022	ND	2.15	108	2.00	6.93	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.14	107	2.00	6.22	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.64	111	6.00	6.27	
Total BTX	<0.300	0.300	04/19/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/19/2022	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	04/18/2022	ND	201	101	200	8.87	
DRO >C10-C28*	184	10.0	04/18/2022	ND	222	111	200	1.72	
EXT DRO >C28-C36	38.9	10.0	04/18/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 135 % 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: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 192 @ 2' (H221548-22)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2022	ND	2.15	108	2.00	6.30		
Toluene*	<0.050	0.050	04/19/2022	ND	2.15	108	2.00	6.93		
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.14	107	2.00	6.22		
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.64	111	6.00	6.27		
Total BTX	<0.300	0.300	04/19/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/19/2022	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	04/18/2022	ND	201	101	200	8.87	
DRO >C10-C28*	<10.0	10.0	04/18/2022	ND	222	111	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/18/2022	ND					

Surrogate: 1-Chlorooctane 98.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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**Analytical Results For:**

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

Received: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 193 @ 2' (H221548-23)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.15	108	2.00	6.30	
Toluene*	<0.050	0.050	04/19/2022	ND	2.15	108	2.00	6.93	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.14	107	2.00	6.22	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.64	111	6.00	6.27	
Total BTX	<0.300	0.300	04/19/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/19/2022	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	04/19/2022	ND	201	101	200	8.87	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	222	111	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 115 % 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: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 194 @ 2' (H221548-24)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.15	108	2.00	6.30	
Toluene*	<0.050	0.050	04/19/2022	ND	2.15	108	2.00	6.93	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.14	107	2.00	6.22	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.64	111	6.00	6.27	
Total BTX	<0.300	0.300	04/19/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/19/2022	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	04/19/2022	ND	201	101	200	8.87	
DRO >C10-C28*	234	10.0	04/19/2022	ND	222	111	200	1.72	
EXT DRO >C28-C36	56.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 140 % 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: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 195 @ 2' (H221548-25)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.14	107	2.00	1.63	QR-03
Toluene*	<0.050	0.050	04/19/2022	ND	2.13	107	2.00	0.906	QR-03
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	1.64	QR-03
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.62	110	6.00	1.55	QR-03
Total BTX	<0.300	0.300	04/19/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/19/2022	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	04/19/2022	ND	201	101	200	8.87	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	222	111	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 111 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 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: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 196 @ 2' (H221548-26)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.14	107	2.00	1.63	
Toluene*	<0.050	0.050	04/19/2022	ND	2.13	107	2.00	0.906	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	1.64	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.62	110	6.00	1.55	
Total BTX	<0.300	0.300	04/19/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/19/2022	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	04/19/2022	ND	201	101	200	8.87	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	222	111	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 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: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 197 @ 2' (H221548-27)**

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	04/19/2022	ND	2.14	107	2.00	1.63	
Toluene*	<0.050	0.050	04/19/2022	ND	2.13	107	2.00	0.906	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	1.64	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.62	110	6.00	1.55	
Total BTEX	<0.300	0.300	04/19/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/19/2022	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	04/19/2022	ND	201	101	200	8.87	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	222	111	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 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: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 198 @ 2' (H221548-28)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.14	107	2.00	1.63	
Toluene*	<0.050	0.050	04/19/2022	ND	2.13	107	2.00	0.906	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	1.64	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.62	110	6.00	1.55	
Total BTX	<0.300	0.300	04/19/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/19/2022	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	04/19/2022	ND	201	101	200	8.87	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	222	111	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 126 % 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: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 199 @ 2' (H221548-29)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2022	ND	2.14	107	2.00	1.63		
Toluene*	<0.050	0.050	04/19/2022	ND	2.13	107	2.00	0.906		
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	1.64		
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.62	110	6.00	1.55		
Total BTEx	<0.300	0.300	04/19/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/19/2022	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	04/19/2022	ND	201	101	200	8.87	
DRO >C10-C28*	241	10.0	04/19/2022	ND	222	111	200	1.72	
EXT DRO >C28-C36	55.2	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 141 % 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: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 200 @ 2' (H221548-30)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.14	107	2.00	1.63	
Toluene*	<0.050	0.050	04/19/2022	ND	2.13	107	2.00	0.906	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	1.64	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.62	110	6.00	1.55	
Total BTX	<0.300	0.300	04/19/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/19/2022	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	04/19/2022	ND	201	101	200	8.87	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	222	111	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 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: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 201 @ 2' (H221548-31)**

BTEX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2022	ND	2.14	107	2.00	1.63		
Toluene*	<0.050	0.050	04/19/2022	ND	2.13	107	2.00	0.906		
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	1.64		
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.62	110	6.00	1.55		
Total BTEX	<0.300	0.300	04/19/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/19/2022	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	04/19/2022	ND	201	101	200	8.87	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	222	111	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 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: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 202 @ 2' (H221548-32)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2022	ND	2.14	107	2.00	1.63		
Toluene*	<0.050	0.050	04/19/2022	ND	2.13	107	2.00	0.906		
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	1.64		
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.62	110	6.00	1.55		
Total BTEx	<0.300	0.300	04/19/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/19/2022	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	04/19/2022	ND	201	101	200	8.87	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	222	111	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 111 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 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: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 203 @ 2' (H221548-33)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2022	ND	2.14	107	2.00	1.63		
Toluene*	<0.050	0.050	04/19/2022	ND	2.13	107	2.00	0.906		
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	1.64		
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.62	110	6.00	1.55		
Total BTEx	<0.300	0.300	04/19/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/19/2022	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	04/19/2022	ND	201	101	200	8.87	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	222	111	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 113 % 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: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 204 @ 2' (H221548-34)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2022	ND	2.14	107	2.00	1.63		
Toluene*	<0.050	0.050	04/19/2022	ND	2.13	107	2.00	0.906		
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	1.64		
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.62	110	6.00	1.55		
Total BTEx	<0.300	0.300	04/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	04/19/2022	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	04/18/2022	ND	204	102	200	4.73	
DRO >C10-C28*	<10.0	10.0	04/18/2022	ND	194	96.9	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	04/18/2022	ND					

Surrogate: 1-Chlorooctane 92.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.3 % 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: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 205 @ 2' (H221548-35)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2022	ND	2.14	107	2.00	1.63		
Toluene*	<0.050	0.050	04/19/2022	ND	2.13	107	2.00	0.906		
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	1.64		
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.62	110	6.00	1.55		
Total BTEx	<0.300	0.300	04/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	04/19/2022	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	04/18/2022	ND	204	102	200	4.73	
DRO >C10-C28*	122	10.0	04/18/2022	ND	194	96.9	200	2.92	
EXT DRO >C28-C36	15.6	10.0	04/18/2022	ND					

Surrogate: 1-Chlorooctane 93.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 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: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 206 @ 2' (H221548-36)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2022	ND	2.14	107	2.00	1.63		
Toluene*	<0.050	0.050	04/19/2022	ND	2.13	107	2.00	0.906		
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	1.64		
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.62	110	6.00	1.55		
Total BTEx	<0.300	0.300	04/19/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/19/2022	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	04/18/2022	ND	204	102	200	4.73	
DRO >C10-C28*	<10.0	10.0	04/18/2022	ND	194	96.9	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	04/18/2022	ND					

Surrogate: 1-Chlorooctane 97.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.3 % 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: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 207 @ 2' (H221548-37)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.14	107	2.00	1.63	
Toluene*	<0.050	0.050	04/19/2022	ND	2.13	107	2.00	0.906	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	1.64	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.62	110	6.00	1.55	
Total BTX	<0.300	0.300	04/19/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/19/2022	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	04/18/2022	ND	204	102	200	4.73	
DRO >C10-C28*	266	10.0	04/18/2022	ND	194	96.9	200	2.92	
EXT DRO >C28-C36	51.2	10.0	04/18/2022	ND					

Surrogate: 1-Chlorooctane 94.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 208 @ 2' (H221548-38)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.14	107	2.00	1.63	
Toluene*	<0.050	0.050	04/19/2022	ND	2.13	107	2.00	0.906	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	1.64	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.62	110	6.00	1.55	
Total BTX	<0.300	0.300	04/19/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/19/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2022	ND	204	102	200	4.73	
DRO >C10-C28*	30.5	10.0	04/18/2022	ND	194	96.9	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	04/18/2022	ND					

Surrogate: 1-Chlorooctane 94.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.7 % 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: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 209 @ 2' (H221548-39)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.14	107	2.00	1.63	
Toluene*	<0.050	0.050	04/19/2022	ND	2.13	107	2.00	0.906	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	1.64	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.62	110	6.00	1.55	
Total BTX	<0.300	0.300	04/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	04/19/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2022	ND	204	102	200	4.73	
DRO >C10-C28*	55.6	10.0	04/19/2022	ND	194	96.9	200	2.92	
EXT DRO >C28-C36	10.7	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 04/13/2022  
 Reported: 04/19/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 210 @ 2' (H221548-40)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.14	107	2.00	1.63	
Toluene*	<0.050	0.050	04/19/2022	ND	2.13	107	2.00	0.906	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	1.64	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.62	110	6.00	1.55	
Total BTX	<0.300	0.300	04/19/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/19/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2022	ND	204	102	200	4.73	
DRO >C10-C28*	52.8	10.0	04/19/2022	ND	194	96.9	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 100 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager



## ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 4

Page 39 of 42

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																	
Project Manager: Lance Cresshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																																	
Address: P.O. Box 301				Company: Mewbourne																																					
City: Lovington Hobbs State: NM Zip: 88260 88240				Attn: Robbie Runnels																																					
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address: 4801 Business Park Blvd																																					
Project #: 15286 Project Owner: Robbie Runnels				City: Hobbs																																					
Project Name: White Federal 1				State: NM Zip: 88240																																					
Project Location: Mewbourne Oil Company				Phone #:																																					
Sampler Name: Eric Mojica				Fax #:																																					
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE		ICE / GEL		OTHER :		DATE		TIME													
H281548				C		1		✓												✓						4-13-22															
1		FS 94e2		C		1		✓												✓																					
2		FS 95e2		C		1		✓												✓																					
3		FS 110e2		C		1		✓												✓																					
4		FS 112e2		C		1		✓												✓																					
5		FS 113e2		C		1		✓												✓																					
6		FS 119e2		C		1		✓												✓																					
7		FS 120e2		C		1		✓												✓																					
8		FS 121e2		C		1		✓												✓																					
9		FS 124e2		C		1		✓												✓																					
10		FS 180e2		C		1		✓												✓																					
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																									
Relinquished By:				Date: 4-13-22				Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																									
Eric Mojica				Time: 1553				S. Rodriguez				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																									
Relinquished By:				Date:				Received By:				REMARKS:																													
				Time:																																					
Delivered By: (Circle One) 2-78 JC-O.52				Sample Condition				CHECKED BY:				Please email results to pm@etechenv.com.																													
Sampler - UPS - Bus - Other: 2-28 #113				Cool Intact				(Initials)																																	
				<input type="checkbox"/> Yes <input type="checkbox"/> No				802																																	





## ARDINAL LABORATORIES

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No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 4

Page 40 of 42

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: Mowbourne																			
City: Lovington Hobbs State: NM Zip: 88260 88240										Attn: Robbie Runnels																			
Phone #: (575) 396-2378 Fax #: (575) 396-1429										Address: 4801 Business Park Blvd.																			
Project #: 15286 Project Owner: Robbie Runnels										City: Hobbs																			
Project Name: White Federal 1										State: NM Zip: 88240																			
Project Location: Mowbourne Oil Company										Phone #: -																			
Sampler Name: Eric Mojica										Fax #: -																			
FOR LAB USE ONLY																													
Lab I.D.										Sample I.D.																			
H221548																													
11 FS 181° 2'										C 1										✓									
12 FS 182° 2'										C 1										✓									
13 FS 183° 2'										C 1										✓									
14 FS 184° 2'										C 1										✓									
15 FS 185° 2'										C 1										✓									
16 FS 186° 2'										C 1										✓									
17 FS 187° 2'										C 1										✓									
18 FS 188° 2'										C 1										✓									
19 FS 189° 2'										C 1										✓									
20 FS 190° 2'										C 1										✓									
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																													
Relinquished By: Eric Mojica										Date: 4-13-22 Time: 1553										Received By: [Signature]									
Relinquished By:										Date:										Received By:									
										Time:																			
Delivered By: (Circle One) 2-78 C-0.58										Sample Condition Cool Intact										CHECKED BY: (Initials) [Signature]									
Sampler - UPS - Bus - Other: 2-22 #113										Yes No Yes No																			
Please email results to pm@etechenv.com.																													





# CARDINAL LABORATORIES

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3.44

Page 41 of 42

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: Lance Crenshaw				P.O. #: —				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: P.O. Box 301				Company: Mewbourne																							
City: <del>Tovington</del> Hobbs State: NM Zip: <del>88260</del> 88240				Attn: Robbie Runnels																							
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address: 4801 Business Park Blvd.																							
Project #: 15286 Project Owner: Robbie Runnels				City: Hobbs																							
Project Name: White Federal 1				State: NM Zip: 88240																							
Project Location: Mewbourne Oil Company				Phone #: —																							
Sampler Name: Eric Mojica				Fax #: —																							
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE	ICE / SOOT	OTHER :	DATE	TIME													
H821548																											
21	FS 191e2	C	1			✓				✓			4-13-22		✓	✓	✓										
22	FS 192e2	C	1			✓				✓					✓	✓	✓										
23	FS 193e2	C	1			✓				✓					✓	✓	✓										
24	FS 194e2	C	1			✓				✓					✓	✓	✓										
25	FS 195e2	C	1			✓				✓					✓	✓	✓										
26	FS 196e2	C	1			✓				✓					✓	✓	✓										
27	FS 197e2	C	1			✓				✓					✓	✓	✓										
28	FS 198e2	C	1			✓				✓					✓	✓	✓										
29	FS 199e2	C	1			✓				✓					✓	✓	✓										
30	FS 200e2	C	1			✓				✓					✓	✓	✓										
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																											
Relinquished By: <i>Eric Mojica</i>				Date: 4-13-22		Received By: <i>S. Rodriguez</i>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:													
Relinquished By:				Time: 1553		Received By:				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:													
Date:				Time:		Date:				REMARKS:																	
Time:										Please email results to pm@etechenv.com.																	
Delivered By: (Circle One) 2.78 C-0.58				Sample Condition				CHECKED BY:																			
Sampler - UPS - Bus - Other: 2.28 #113				Cool Intact				(Initials)																			
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<i>JRC</i>																			
				<input type="checkbox"/> No <input type="checkbox"/> No																							





No Rush

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4 of 4

~~Page 42 of 42~~

[illegible]





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

---

April 25, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WHITE FEDERAL 1

Enclosed are the results of analyses for samples received by the laboratory on 04/20/22 16:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/20/2022  
 Reported: 04/25/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 125 @ 1.5' (H221636-01)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	221	111	200	6.73	
<b>DRO &gt;C10-C28*</b>	<b>431</b>	10.0	04/22/2022	ND	251	126	200	4.80	
<b>EXT DRO &gt;C28-C36</b>	<b>243</b>	10.0	04/22/2022	ND					

Surrogate: 1-Chlorooctane 92.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 125 % 59.5-142

**Sample ID: FS 129 @ 1.5' (H221636-02)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	221	111	200	6.73	
<b>DRO &gt;C10-C28*</b>	<b>1010</b>	10.0	04/22/2022	ND	251	126	200	4.80	
<b>EXT DRO &gt;C28-C36</b>	<b>286</b>	10.0	04/22/2022	ND					

Surrogate: 1-Chlorooctane 93.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

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\*=Accredited Analyte

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**Analytical Results For:**

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

Received: 04/20/2022  
 Reported: 04/25/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 131 @ 1.5' (H221636-03)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	221	111	200	6.73	
<b>DRO &gt;C10-C28*</b>	<b>216</b>	10.0	04/22/2022	ND	251	126	200	4.80	
<b>EXT DRO &gt;C28-C36</b>	<b>49.8</b>	10.0	04/22/2022	ND					
Surrogate: 1-Chlorooctane	92.2 %	66.9-136							
Surrogate: 1-Chlorooctadecane	115 %	59.5-142							

**Sample ID: FS 134 @ 1.5' (H221636-04)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	221	111	200	6.73	
<b>DRO &gt;C10-C28*</b>	<b>414</b>	10.0	04/22/2022	ND	251	126	200	4.80	
<b>EXT DRO &gt;C28-C36</b>	<b>156</b>	10.0	04/22/2022	ND					
Surrogate: 1-Chlorooctane	92.9 %	66.9-136							
Surrogate: 1-Chlorooctadecane	117 %	59.5-142							

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 HOBBS NM, 88240  
 Fax To:

Received: 04/20/2022  
 Reported: 04/25/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 135 @ 1.5' (H221636-05)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	221	111	200	6.73	
<b>DRO &gt;C10-C28*</b>	<b>324</b>	10.0	04/22/2022	ND	251	126	200	4.80	
<b>EXT DRO &gt;C28-C36</b>	<b>81.2</b>	10.0	04/22/2022	ND					
Surrogate: 1-Chlorooctane	103 %	66.9-136							
Surrogate: 1-Chlorooctadecane	129 %	59.5-142							

**Sample ID: FS 137 @ 1.5' (H221636-06)**

TPH 8015M	mg/kg	Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	199	99.6	200	4.90	
<b>DRO &gt;C10-C28*</b>	<b>506</b>	10.0	04/22/2022	ND	200	99.9	200	8.37	
<b>EXT DRO &gt;C28-C36</b>	<b>156</b>	10.0	04/22/2022	ND					
Surrogate: 1-Chlorooctane	97.4 %	66.9-136							
Surrogate: 1-Chlorooctadecane	120 %	59.5-142							

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 HOBBS NM, 88240  
 Fax To:

Received: 04/20/2022  
 Reported: 04/25/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 138 @ 1.5' (H221636-07)**

TPH 8015M	mg/kg	Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	199	99.6	200	4.90	
<b>DRO &gt;C10-C28*</b>	<b>311</b>	10.0	04/22/2022	ND	200	99.9	200	8.37	
<b>EXT DRO &gt;C28-C36</b>	<b>109</b>	10.0	04/22/2022	ND					
Surrogate: 1-Chlorooctane	103 %	66.9-136							
Surrogate: 1-Chlorooctadecane	109 %	59.5-142							

**Sample ID: EW 11 A (H221636-08)**

TPH 8015M	mg/kg	Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	199	99.6	200	4.90	
<b>DRO &gt;C10-C28*</b>	<b>42.3</b>	10.0	04/22/2022	ND	200	99.9	200	8.37	
<b>EXT DRO &gt;C28-C36</b>	<b>10.3</b>	10.0	04/22/2022	ND					
Surrogate: 1-Chlorooctane	96.5 %	66.9-136							
Surrogate: 1-Chlorooctadecane	94.3 %	59.5-142							

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 Fax To:

Received: 04/20/2022  
 Reported: 04/25/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 13 A (H221636-09)**

TPH 8015M	mg/kg	Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	199	99.6	200	4.90	
<b>DRO &gt;C10-C28*</b>	<b>49.2</b>	10.0	04/22/2022	ND	200	99.9	200	8.37	
EXT DRO >C28-C36	<10.0	10.0	04/22/2022	ND					
Surrogate: 1-Chlorooctane	99.3 %	66.9-136							
Surrogate: 1-Chlorooctadecane	96.6 %	59.5-142							

**Sample ID: FS 25 @ 3' (H221636-10)**

TPH 8015M	mg/kg	Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	199	99.6	200	4.90	
DRO >C10-C28*	<10.0	10.0	04/22/2022	ND	200	99.9	200	8.37	
EXT DRO >C28-C36	<10.0	10.0	04/22/2022	ND					
Surrogate: 1-Chlorooctane	101 %	66.9-136							
Surrogate: 1-Chlorooctadecane	103 %	59.5-142							

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/20/2022  
 Reported: 04/25/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/20/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 26 @ 3' (H221636-11)**

TPH 8015M		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	199	99.6	200	4.90	
DRO >C10-C28*	<10.0	10.0	04/22/2022	ND	200	99.9	200	8.37	
EXT DRO >C28-C36	<10.0	10.0	04/22/2022	ND					
Surrogate: 1-Chlorooctane	100 %	66.9-136							
Surrogate: 1-Chlorooctadecane	100 %	59.5-142							

**Sample ID: FS 27 @ 3' (H221636-12)**

TPH 8015M		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	199	99.6	200	4.90	
DRO >C10-C28*	<10.0	10.0	04/22/2022	ND	200	99.9	200	8.37	
EXT DRO >C28-C36	<10.0	10.0	04/22/2022	ND					
Surrogate: 1-Chlorooctane	101 %	66.9-136							
Surrogate: 1-Chlorooctadecane	100 %	59.5-142							

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 HOBBS NM, 88240  
 Fax To:

Received: 04/20/2022  
 Reported: 04/25/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/20/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 28 @ 3' (H221636-13)**

TPH 8015M		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	199	99.6	200	4.90	
DRO >C10-C28*	<10.0	10.0	04/22/2022	ND	200	99.9	200	8.37	
EXT DRO >C28-C36	<10.0	10.0	04/22/2022	ND					
Surrogate: 1-Chlorooctane	99.8 %	66.9-136							
Surrogate: 1-Chlorooctadecane	99.5 %	59.5-142							

**Sample ID: FS 29 @ 3' (H221636-14)**

TPH 8015M		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	199	99.6	200	4.90	
DRO >C10-C28*	<10.0	10.0	04/22/2022	ND	200	99.9	200	8.37	
EXT DRO >C28-C36	<10.0	10.0	04/22/2022	ND					
Surrogate: 1-Chlorooctane	92.4 %	66.9-136							
Surrogate: 1-Chlorooctadecane	91.5 %	59.5-142							

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 HOBBS NM, 88240  
 Fax To:

Received: 04/20/2022  
 Reported: 04/25/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/20/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 148 @ 3' (H221636-15)**

TPH 8015M	mg/kg	Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	199	99.6	200	4.90	
DRO >C10-C28*	<10.0	10.0	04/22/2022	ND	200	99.9	200	8.37	
EXT DRO >C28-C36	<10.0	10.0	04/22/2022	ND					
Surrogate: 1-Chlorooctane	97.9 %	66.9-136							
Surrogate: 1-Chlorooctadecane	99.0 %	59.5-142							

**Sample ID: FS 163 @ 3' (H221636-16)**

TPH 8015M	mg/kg	Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	199	99.6	200	4.90	
DRO >C10-C28*	<10.0	10.0	04/22/2022	ND	200	99.9	200	8.37	
EXT DRO >C28-C36	<10.0	10.0	04/22/2022	ND					
Surrogate: 1-Chlorooctane	99.2 %	66.9-136							
Surrogate: 1-Chlorooctadecane	99.3 %	59.5-142							

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 Fax To:

Received: 04/20/2022  
 Reported: 04/25/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/20/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 180 @ 3' (H221636-17)**

TPH 8015M	mg/kg	Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	199	99.6	200	4.90	
DRO >C10-C28*	<10.0	10.0	04/22/2022	ND	200	99.9	200	8.37	
EXT DRO >C28-C36	<10.0	10.0	04/22/2022	ND					
Surrogate: 1-Chlorooctane	99.4 %	66.9-136							
Surrogate: 1-Chlorooctadecane	97.0 %	59.5-142							

**Sample ID: FS 191 @ 3' (H221636-18)**

TPH 8015M	mg/kg	Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	199	99.6	200	4.90	
DRO >C10-C28*	<10.0	10.0	04/22/2022	ND	200	99.9	200	8.37	
EXT DRO >C28-C36	<10.0	10.0	04/22/2022	ND					
Surrogate: 1-Chlorooctane	101 %	66.9-136							
Surrogate: 1-Chlorooctadecane	100 %	59.5-142							

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 HOBBS NM, 88240  
 Fax To:

Received: 04/20/2022  
 Reported: 04/25/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/20/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 194 @ 3' (H221636-19)**

TPH 8015M	mg/kg	Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	199	99.6	200	4.90	
DRO >C10-C28*	<10.0	10.0	04/22/2022	ND	200	99.9	200	8.37	
EXT DRO >C28-C36	<10.0	10.0	04/22/2022	ND					
Surrogate: 1-Chlorooctane	102 %	66.9-136							
Surrogate: 1-Chlorooctadecane	102 %	59.5-142							

**Sample ID: FS 199 @ 3' (H221636-20)**

TPH 8015M	mg/kg	Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	199	99.6	200	4.90	
DRO >C10-C28*	<10.0	10.0	04/22/2022	ND	200	99.9	200	8.37	
EXT DRO >C28-C36	<10.0	10.0	04/22/2022	ND					
Surrogate: 1-Chlorooctane	101 %	66.9-136							
Surrogate: 1-Chlorooctadecane	102 %	59.5-142							

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/20/2022  
 Reported: 04/25/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/20/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 205 @ 3' (H221636-21)**

TPH 8015M	mg/kg	Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	199	99.6	200	4.90	
DRO >C10-C28*	<10.0	10.0	04/22/2022	ND	200	99.9	200	8.37	
EXT DRO >C28-C36	<10.0	10.0	04/22/2022	ND					
Surrogate: 1-Chlorooctane	93.4 %	66.9-136							
Surrogate: 1-Chlorooctadecane	96.7 %	59.5-142							

**Sample ID: FS 207 @ 3' (H221636-22)**

TPH 8015M	mg/kg	Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	199	99.6	200	4.90	
DRO >C10-C28*	<10.0	10.0	04/22/2022	ND	200	99.9	200	8.37	
EXT DRO >C28-C36	<10.0	10.0	04/22/2022	ND					
Surrogate: 1-Chlorooctane	110 %	66.9-136							
Surrogate: 1-Chlorooctadecane	108 %	59.5-142							

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### Notes and Definitions

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager



## CARDINAL LABORATORIES

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

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

No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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# **CARDINAL LABORATORIES**

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

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Page 15 of 16

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: <u>Lance Crenshaw</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 W Marland				Company: <u>Mawbourne</u>																							
City: Hobbs		State: NM		Zip: 88240		Attn: <u>Robbie Runnels</u>																					
Phone #: (575) 264-9884		Fax #:		Address: <u>4201 Business Park Blvd</u>																							
Project #: <u>15286</u>		Project Owner: <u>Robbie Runnels</u>		City: <u>Hobbs</u>																							
Project Name: <u>White Federal 1</u>				State: <u>NM</u>																Zip: <u>88240</u>							
Project Location: <u>Mawbourne Oil Company</u>				Phone #:																							
Sampler Name: <u>Eric Mejia</u>				Fax #:																							
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
Lab I.D.		Sample I.D.		(G/RAB OR (COMP. # CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL:		OTHER:		DATE		TIME	
<u>H221636</u>																											
<u>11</u>		<u>FS 26e3</u>		<u>C 1</u>																							
<u>12</u>		<u>FS 27e3</u>		<u>C 1</u>																							
<u>13</u>		<u>FS 28e3</u>		<u>C 1</u>																							
<u>14</u>		<u>FS 29e3</u>		<u>C 1</u>																							
<u>15</u>		<u>FS 148e3</u>		<u>C 1</u>																							
<u>16</u> <sup>EM</sup>		<u>FS 168e3 163e3</u>		<u>C 1</u>																							
<u>17</u>		<u>FS 180e3</u>		<u>C 1</u>																							
<u>18</u>		<u>FS 191e3</u>		<u>C 1</u>																							
<u>19</u>		<u>FS 194e3</u>		<u>C 1</u>																							
<u>20</u>		<u>FS 199e3</u>		<u>C 1</u>																							
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																											
Relinquished By: <u>Eric Mejia</u>				Date: <u>4-20-22</u>				Received By: <u>Shodriqney</u>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:											
Relinquished By:				Time: <u>1605</u>								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:											
				Date:				Received By:				REMARKS:															
				Time:																							
Delivered By: (Circle One) <u>3.88</u> <u>C-0.5e</u>				Sample Condition				CHECKED BY:				Please email results and copy of CoC to pm@etechenv.com.															
Sampler - UPS - Bus - Other: <u>3.3e #113</u>				Cool Intact				(Initials)																			
				<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No																			



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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 16 of 16

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

---

April 27, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WHITE FEDERAL 1

Enclosed are the results of analyses for samples received by the laboratory on 04/26/22 16:41.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/26/2022  
 Reported: 04/27/2022  
 Project Name: WHITE FEDERAL 1  
 Project Number: 15286  
 Project Location: MEWBOURNE

Sampling Date: 04/26/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 129 @ 2.5' (H221712-01)**

TPH 8015M	mg/kg	Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2022	ND	199	99.7	200	0.509	
<b>DRO &gt;C10-C28*</b>	<b>156</b>	10.0	04/27/2022	ND	183	91.6	200	0.941	
<b>EXT DRO &gt;C28-C36</b>	<b>38.6</b>	10.0	04/27/2022	ND					

Surrogate: 1-Chlorooctane 81.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.6 % 59.5-142

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### Notes and Definitions

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

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---

Celey D. Keene, Lab Director/Quality Manager

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Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																	
Project Manager: Lance Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																																	
Address: 2617 W Marland				Company: Mewbourne																																					
City: Hobbs State: NM Zip: 88240				Attn: Robbie Runnels																																					
Phone #: (575) 264-9884 Fax #:				Address: 4801 Brainerd Pk Blvd																																					
Project #: 15286 Project Owner: Robbie Runnels				City: Hobbs																																					
Project Name: White Federal 1				State: NM Zip: 88240																																					
Project Location: Mewbourne Oil Company				Phone #: —																																					
Sampler Name: Eric Mojica				Fax #: —																																					
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME													
H221712		FS12902 1/2		C		1						✓										✓				4-26-22				✓											

FORM-006  
Revision 1.0

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

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 121249

CONDITIONS

Operator:  GEORGE A CHASE JR DBA G AND C SERVICE P.O. Box 1618 Artesia, NM 88211	OGRID:  265378
	Action Number:  121249
	Action Type:  [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	None	7/13/2022