


Remediation Summary & Soil Closure Request

Mewbourne Oil Company Little Valley Federal #1H

Lea County, New Mexico
Unit Letter "M", Section 17, Township 21 South, Range 32 East
Latitude 32.47324 North, Longitude 103.70204 West
NMOCD Reference No. nAPP2401946483

Prepared By:

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Little Valley Federal #1H (henceforth, "Little Valley"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.47324 Longitude: -103.70204

Provided GPS are in WGS84 format.

Site Name: Little Valley Federal #1H	Site Type: Tank Battery
Date Release Discovered: 1/10/2024	API # (if applicable): 30-025-41496

Unit Letter	Section	Township	Range	County
"M"	17	21S	32E	Lea

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

Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 272	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride 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:

Static electricity caused a tank battery fire.

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 New Mexico Oil Conservation Division (NMOCD) Form C-141 are available in the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)?	Between 100 and 500 (ft.)
What method was used to determine the depth to groundwater?	Estimate or Other
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
What is the minimum distance between the closest lateral extents of the release and the following surface areas?	
A continuously flowing watercourse or any other significant watercourse?	1 to 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	1 to 5 (mi.)
An occupied permanent residence, school, hospital, institution or church?	> 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	1 to 5 (mi.)
Any other fresh water well or spring?	1 to 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field?	> 5 (mi.)
A wetland?	1 to 5 (mi.)
A subsurface mine?	1 to 5 (mi.)
A (non-karst) unstable area?	1 to 5 (mi.)
Categorize the risk of this well/site being in a karst geology.	Low
A 100-year floodplain?	> 5 (mi.)
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Searches of databases maintained by the NMOCD, New Mexico Office of the State Engineer (NMOSE), and United States Geological Survey (USGS) were conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Little Valley 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 February 9, 2024, an investigative soil boring (BH-1) 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 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 is depicted in Figures 2A, 2B, and 4. A drilling log is provided in Appendix A.

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standard for the Little Valley release site are as listed in the table on the following page.

Closure Criteria for Soils Impacted by a Release

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
Between 100 and 500 (ft.)	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

Requesting a remediation plan approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
On what estimated date did, or will, the remediation commence?	<u>2/15/2024</u>	
On what date will (or was) the remediation complete(d)?	<u>3/4/2024</u>	
What was the total surface area (sq. ft.) that has or will be remediated?	<u>31,823</u>	
What was the total volume (cy) that has or will be remediated?	<u>3,760</u>	
This remediation utilized the following processes to remediate/reduce contaminants: (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Soil Vapor Extraction	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Ground Water Abatement pursuant to 19.15.30 NMAC	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Other (Non-listed remedial process)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Which OCD approved facility was or will be used for off-site disposal?	<u>R360 Halfway Facility</u>	
NMOCD Disposal Facility ID?	<u>fEEM0112334510</u>	
Summarize any additional remediation activities not included by answers above.	<u>See below</u>	

On February 15, 2024, remediation activities commenced at the Little Valley release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and/or 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 chloride test kit were utilized to field-screen the horizontal and vertical 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/or NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis. A summary of soil sampling events is provided in the table on the following page.

Summary of Soil Sampling Events

Constituent	Highest Observable Concentration (mg/kg)	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	4,800	FL 52 @ 4'	2/26/2024	4	In-Situ
TPH	26.1	FL 44 @ 2'	2/20/2024	2	In-Situ
GRO + DRO	26.1	FL 44 @ 2'	2/20/2024	2	In-Situ
Benzene	<0.050	All submitted samples	2/20, 2/26 & 2/28/2024	0 - 4	In-Situ & Excavated
BTEX	<0.300	All submitted samples	2/20, 2/26 & 2/28/2024	0 - 4	In-Situ & Excavated

Please reference Table 1 for additional information.

On February 20, 2024, Etech collected 56 confirmation soil samples (NW 1, EW 1, EW 2, SW 1, SW 2, WW 1 through WW 6, and FL 1 @ 2' through FL 45 @ 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 that BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory method detection limit (MDL) in each of the submitted soil samples, with the exception of soil sample FL 44 @ 2', which exhibited a TPH concentration of 26.1 mg/kg. Chloride concentrations ranged from 16.0 mg/kg in soil samples NW 1, EW 1, WW 4, and FL 1 @ 2' to 3,080 mg/kg in soil sample FL 36 @ 4'. Chloride concentrations were below the NMOCD Closure Criterion in each of the submitted samples, but the chloride concentration in soil sample FL 15 @ 1' exceeded the NMOCD Reclamation Standard.

On February 26, 2024, Etech collected 76 confirmation soil samples (NW 2, NW 3, EW 3 through EW 6, and FL 46 @ 4' through FL 115 @ 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 that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil sample FL 61 @ 1' to 4,800 mg/kg in soil sample FL 52 @ 4'.

On February 28, 2024, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample FL 15 @ 1'. Etech collected one (1) confirmation soil sample (FL 15 @ 4') from the floor of the excavated area. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that the BTEX, TPH, and chloride concentrations in the soil sample were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. BTEX and TPH concentrations were also less than the applicable laboratory MDL. The chloride concentration was 1,490 mg/kg.

The final dimensions of the excavated area were approximately 352 feet in length, 14 to 148 feet in width, and one (1) to four (4) feet in depth. During the course of remediation activities, Etech transported approximately 3,760 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 4,460 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, "Sample Location Map". Soil chemistry data is summarized in Table 1. General photographs of the site are provided in Appendix B. Field data is provided in Appendix C. Laboratory analytical reports are provided in Appendix D. Copies of all regulatory correspondence are provided in Appendix E.

5.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste containing earthen material with concentrations of less than 600 mg/kg chloride, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg benzene?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
What was the total surface area (sq. ft.) reclaimed?	31,823
What was the total volume (cy) reclaimed?	3,760
What is the total surface area (sq. ft.) that will <i>eventually</i> be reclaimed?	0
What is the total volume (cy) that will <i>eventually</i> be reclaimed?	0

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 areas were contoured and/or 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

Requesting a deferral of remediation closure due date with the approval of this submission?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Requesting a remediation closure approval with this submission?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends Mewbourne Oil Company provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Little Valley 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 referenced in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

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

8.0 DISTRIBUTION

Mewbourne Oil Company

4801 Business Park Blvd.

Hobbs, NM 88240

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 1

1220 South St. Francis Drive

Santa Fe, NM 87505

United States Department of the Interior

Bureau of Land Management

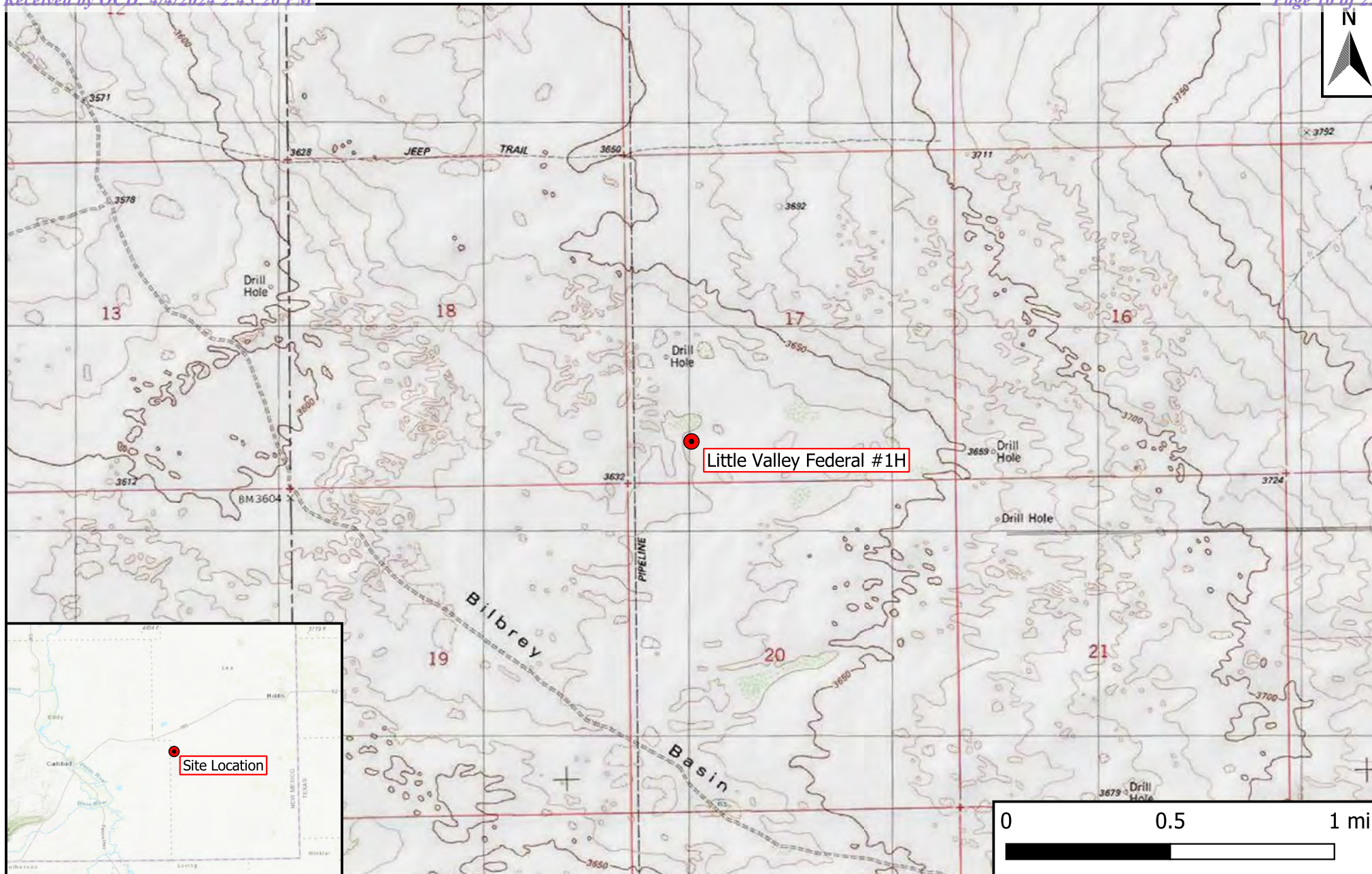
620 E. Greene Street

Carlsbad, NM 88220

(Electronic Submission)

Figure 1

Site Location Map



Legend

- Site Location

Figure 1

Site Location Map
 Mewbourne Oil Company
 Little Valley Federal #1H
 GPS: 32.47324, -103.70204
 Lea County, New Mexico



Drafted: bja

Checked: rlc

Date: 2/19/24

Figures 2A & 2B

Site Characterization Maps

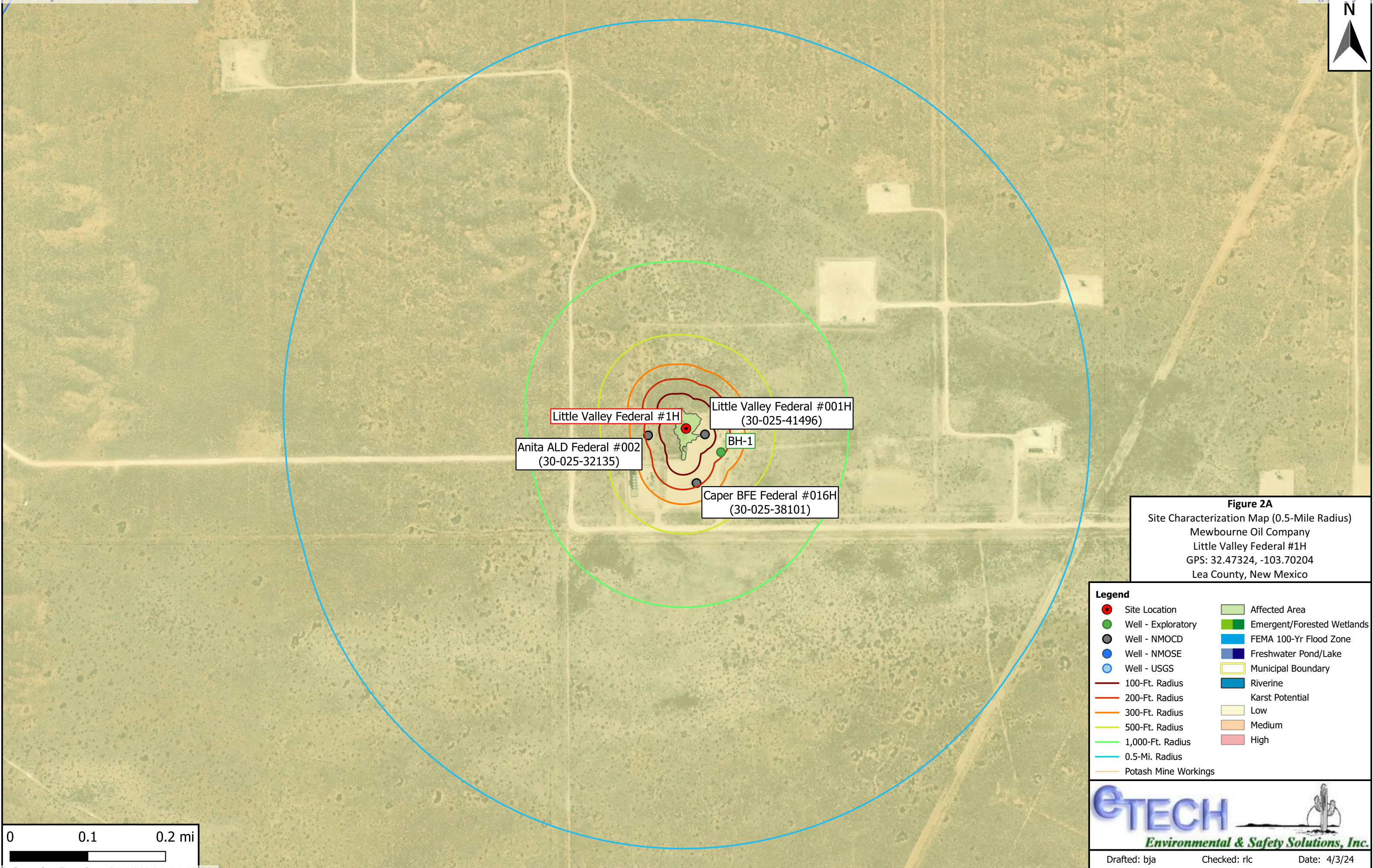
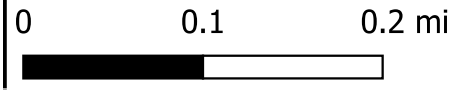


Figure 2A
Site Characterization Map (0.5-Mile Radius)
Mewbourne Oil Company
Little Valley Federal #1H
GPS: 32.47324, -103.70204
Lea County, New Mexico

- Legend**
- | | |
|----------------------|----------------------------|
| Site Location | Affected Area |
| Well - Exploratory | Emergent/Forested Wetlands |
| Well - NMOC | FEMA 100-Yr Flood Zone |
| Well - NMOSE | Freshwater Pond/Lake |
| Well - USGS | Municipal Boundary |
| 100-Ft. Radius | Riverine |
| 200-Ft. Radius | Karst Potential |
| 300-Ft. Radius | Low |
| 500-Ft. Radius | Medium |
| 1,000-Ft. Radius | High |
| 0.5-Mi. Radius | |
| Potash Mine Workings | |



Drafted: bja Checked: rlc Date: 4/3/24



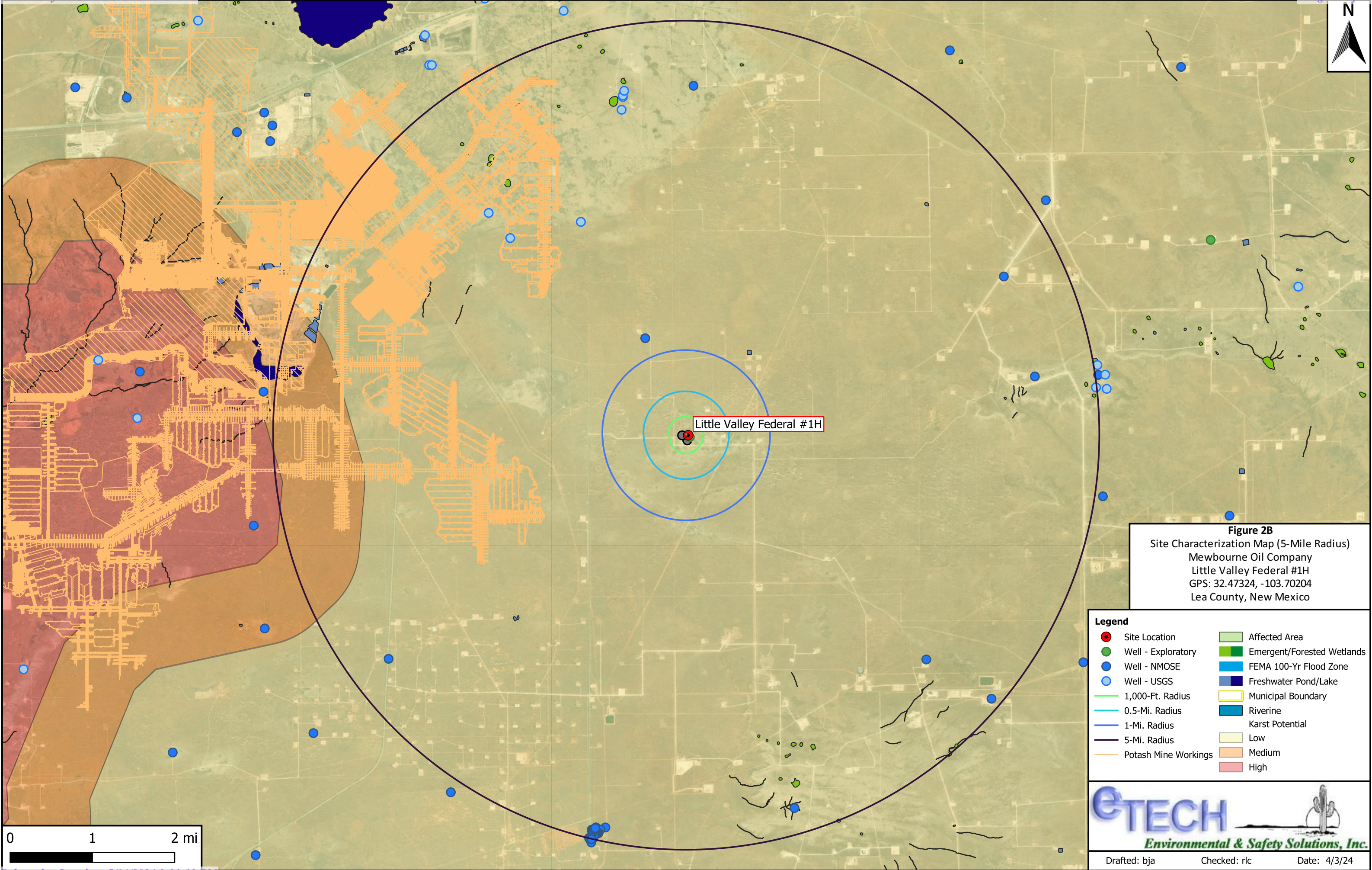
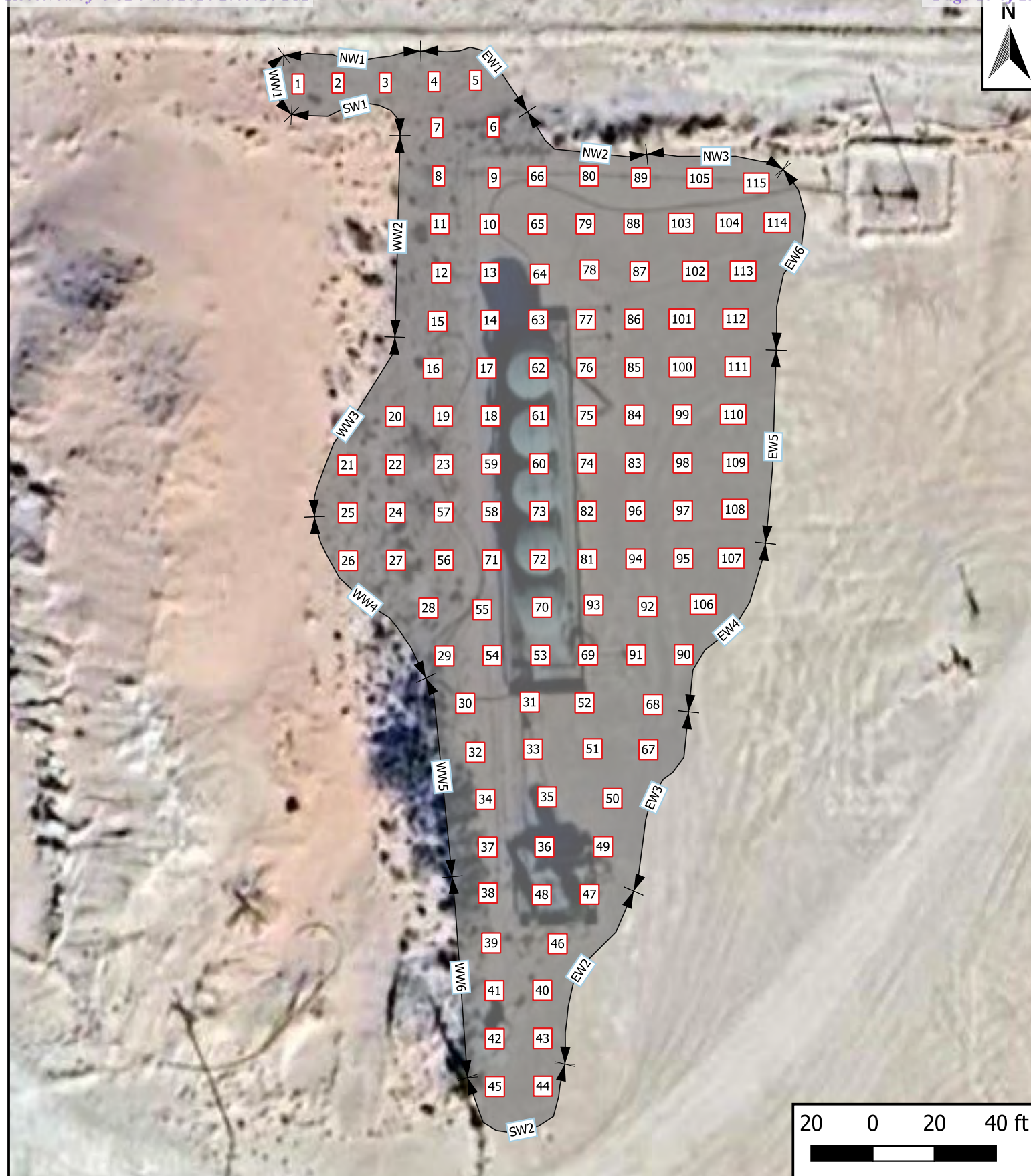


Figure 3

Sample Location Map



Legend

- Excavation Extent
- Composite Wall Sample
- Composite Floor Sample

Figure 3

Sample Location Map
 Mewbourne Oil Company
 Little Valley Federal #1H
 GPS: 32.47324, -103.70204
 Lea County, New Mexico



Created: bja

Checked: rlc

Date: 3/27/24

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Little Valley Federal #1H
NMOCD Ref. #: nAPP2401946483

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 ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
NW1	2/20/2024	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW2	2/26/2024	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW3	2/26/2024	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW1	2/20/2024	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW2	2/20/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
EW3	2/26/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
EW4	2/26/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
EW5	2/26/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
EW6	2/26/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW1	2/20/2024	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW2	2/20/2024	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
WW1	2/20/2024	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW2	2/20/2024	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW3	2/20/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW4	2/20/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW5	2/20/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW6	2/20/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 1 @ 2'	2/20/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 2 @ 2'	2/20/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 3 @ 1'	2/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FL 4 @ 1'	2/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 5 @ 1'	2/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 6 @ 2'	2/20/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 7 @ 2'	2/20/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 8 @ 1'	2/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 9 @ 1'	2/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 10 @ 4'	2/20/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
FL 11 @ 2'	2/20/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 12 @ 3'	2/20/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 13 @ 1'	2/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 14 @ 1'	2/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 15 @ 1'	2/20/2024	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	672
FL 15 @ 4'	2/28/2024	4	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	1,490
FL 16 @ 1'	2/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 17 @ 3'	2/20/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 18 @ 1'	2/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 19 @ 2'	2/20/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 20 @ 3'	2/20/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 21 @ 3'	2/20/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 22 @ 1'	2/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 23 @ 1'	2/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 24 @ 2'	2/20/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Pink-highlighted Cell: Highest observable concentration.

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Little Valley Federal #1H
NMOCD Ref. #: nAPP2401946483

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 ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 25 @ 4'	2/20/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	912
FL 26 @ 4'	2/20/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	960
FL 27 @ 4'	2/20/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	832
FL 28 @ 4'	2/20/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FL 29 @ 4'	2/20/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 30 @ 4'	2/20/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 31 @ 4'	2/20/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FL 32 @ 4'	2/20/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,800
FL 33 @ 4'	2/20/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 34 @ 4'	2/20/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 35 @ 4'	2/20/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 36 @ 4'	2/20/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,080
FL 37 @ 4'	2/20/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 38 @ 2'	2/20/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
FL 39 @ 4'	2/20/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,410
FL 40 @ 4'	2/20/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 41 @ 4'	2/20/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
FL 42 @ 2'	2/20/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 43 @ 3'	2/20/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 44 @ 2'	2/20/2024	2	In-Situ	<0.050	<0.300	<10.0	26.1	26.1	<10.0	26.1	176
FL 45 @ 2'	2/20/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 46 @ 4'	2/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	576
FL 47 @ 4'	2/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	576
FL 48 @ 4'	2/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,600
FL 49 @ 4'	2/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,560
FL 50 @ 4'	2/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,080
FL 51 @ 4'	2/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,760
FL 52 @ 4'	2/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,800
FL 53 @ 4'	2/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,640
FL 54 @ 4'	2/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,000
FL 55 @ 4'	2/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	576
FL 56 @ 4'	2/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,020
FL 57 @ 2'	2/26/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 58 @ 2'	2/26/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 59 @ 1'	2/26/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 60 @ 1'	2/26/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 61 @ 1'	2/26/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 62 @ 1'	2/26/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 63 @ 1'	2/26/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 64 @ 1'	2/26/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 65 @ 1'	2/26/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 66 @ 1'	2/26/2024	1	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.

Pink-highlighted Cell: Highest observable concentration.

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Little Valley Federal #1H
NMOCD Ref. #: nAPP2401946483

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 ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 67 @ 4'	2/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	624
FL 68 @ 2'	2/26/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 69 @ 2'	2/26/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 70 @ 3'	2/26/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 71 @ 2'	2/26/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 72 @ 2'	2/26/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 73 @ 2'	2/26/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 74 @ 2'	2/26/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 75 @ 2'	2/26/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 76 @ 2'	2/26/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL 77 @ 3'	2/26/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 78 @ 1'	2/26/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 79 @ 3'	2/26/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 80 @ 2'	2/26/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 81 @ 2'	2/26/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 82 @ 1'	2/26/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 83 @ 2'	2/26/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 84 @ 3'	2/26/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 85 @ 4'	2/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 86 @ 1'	2/26/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 87 @ 1'	2/26/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 88 @ 1'	2/26/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 89 @ 2'	2/26/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 90 @ 4'	2/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	880
FL 91 @ 3'	2/26/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 92 @ 2'	2/26/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 93 @ 2'	2/26/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 94 @ 3'	2/26/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 95 @ 3'	2/26/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 96 @ 3'	2/26/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 97 @ 3'	2/26/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 98 @ 3'	2/26/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 99 @ 2'	2/26/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 100 @ 2'	2/26/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
FL 101 @ 3'	2/26/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 102 @ 4'	2/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
FL 103 @ 4'	2/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 104 @ 4'	2/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 105 @ 1'	2/26/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 106 @ 1'	2/26/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 107 @ 2'	2/26/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 108 @ 4'	2/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Pink-highlighted Cell: Highest observable concentration.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Little Valley Federal #1H NMOCD Ref. #: nAPP2401946483											
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 ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 109 @ 2'	2/26/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 110 @ 1'	2/26/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
FL 111 @ 4'	2/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 112 @ 1'	2/26/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 113 @ 1'	2/26/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 114 @ 1'	2/26/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 115 @ 1'	2/26/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128

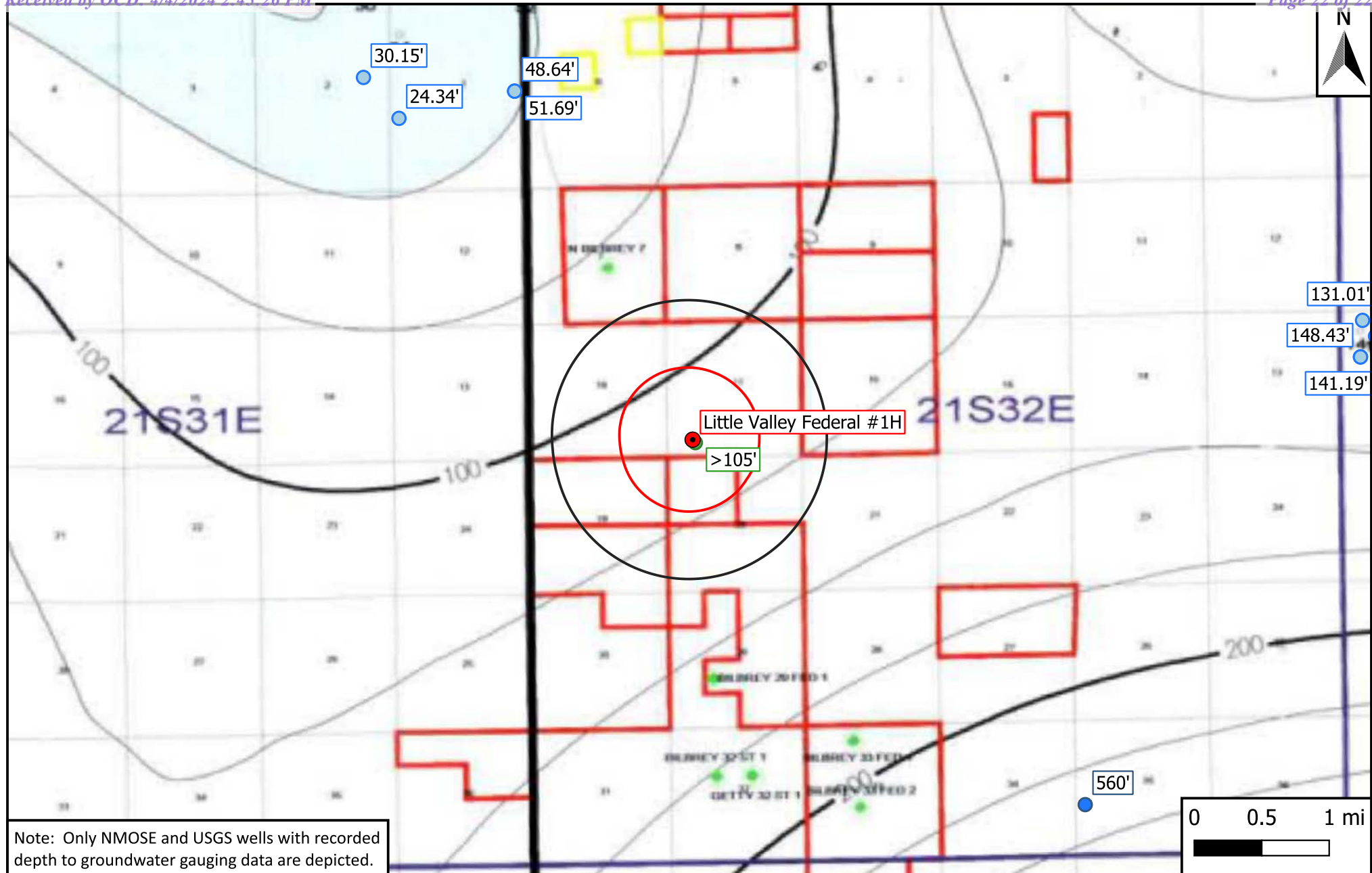
Dash (-): Sample not analyzed for that constituent.

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

Pink-highlighted Cell: Highest observable concentration.

Appendix A

Depth to Groundwater Information



Legend

- Site Location
- Well - Exploratory
- Well - NMOSE
- Well - USGS
- 0.5-Mile Radius
- 1-Mile Radius

Figure 4
 Inferred Depth to Groundwater Map
 Mewbourne Oil Company
 Little Valley Federal #1H
 GPS: 32.47324, -103.70204
 Lea County, New Mexico



Drafted: bja

Checked: rlc

Date: 4/3/24



MCollier@h-r-enterprises.com, JHawley@h-r-enterprises.com
575-909-0326 575-605-3471

SOIL BORE LOG

Project:	Mewbourne Little Valley Fed #1H	Date:	2/9/24
Type:	Exploratory Water Bore	Location:	32.472917,-103.701700

[illegible]



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	Q	Q	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_03151		CUB	ED	4	1	4	07	21S	32E	621119	3595526*	2073	1352		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 621969.83

Northing (Y): 3593634.57

Radius: 2414

*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.


3/26/24 6:00 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 03151	4	1	4	07	21S	32E	621119	3595526* 
<hr/>									
Driller License: 1184		Driller Company: WEST TEXAS WATER WELL SERVICE							
Driller Name: BROCKMAN, BERNARD J.									
Drill Start Date: 08/23/2005		Drill Finish Date: 09/10/2005				Plug Date:			
Log File Date: 09/20/2005		PCW Rcv Date:				Source: Shallow			
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size: 8.00		Depth Well: 1352 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.

1/15/24 10:23 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Transaction Summary

EXPL Permit To Explore

Transaction Number: 323371

Transaction Desc: C 3151

File Date: 02/07/2005

Primary Status: PMT Permit

Secondary Status: LOG Well Log Received

Person Assigned: *****

Applicant: U.S. DEPT OF ENERGY

Contact: HAROLD JOHNSON

Events

Date	Type	Description	Comment	Processed By
02/09/2005	APP	Application Received	*	*****
02/10/2005	FTN	Finalize non-published Trans.		*****
02/17/2005	QAT	Quality Assurance Completed	app	*****
02/24/2005	QAT	Quality Assurance Completed	QC EXPL Images	*****
03/03/2005	QAT	Quality Assurance Completed	IMAGES	*****
09/20/2005	LOG	Well Log Received	*	*****

Water Right Information

WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
C 03151	0	0		MON MONITORING WELL

**Point of Diversion

C 03151 621119 3595526* 

An () after northing value indicates UTM location was derived from PLSS - see Help

Remarks

THE INTENT OF THIS APPLICATION IS TO PROVIDE AUTHORIZATION TO DRILL A GROUNDWATER MONITORING WELL IN SUPPORT OF PERFORMANCE ASSESSMENT FOR THE U.S. DEPARTMENT OF ENERGY'S WASTE ISOLATION PILOT PLANT. THIS WELL WILL BE COMPLETED IN THE CULEBRA

DOLOMITE MEMBER OF THE RUSTLER FORMATION AND WILL NOT BE USED TO APPROPRIATE WATER FOR BENEFICIAL USE. INITIAL PUMP TESTS WILL BE CONDUCTED, NOT TO EXCEED 30 DAYS @ LESS THAN OR EQUAL TO, 20 GAL/MIN. THEREFORE, THE SUBJECT WELL WILL BE USED

FOR WATER LEVEL MEASUREMENTS ONLY.

Conditions

- 2 The well shall be constructed to artesian well specifications and the State Engineer shall be notified before casing is landed or cemented
- 4 No water shall be appropriated and beneficially used under this permit.

- B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated.
- C Driller's well record must be filed with the State Engineer within 10 days after the well is drilled or driven. Well record forms will be provided by the State Engineer upon request.
- C1 A complete and properly executed Well Record on the form provided by the State Engineer shall be filed not later than ten (10) days after completion of the well. Test data shall be filed not later than ten (10) days after completion of the test(s).

x

Action of the State Engineer

**** See Image For Any Additional Conditions of Approval ****

Approval Code: A - Approved

Action Date: 02/10/2005

PCW Due Date: 02/28/2006

State Engineer: John R. D Antonio,

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.

1/15/24 10:24 AM

TRANSACTION
SUMMARY

[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)**National Water Information System: Web Interface**[USGS Water Resources](#)

Data Category:

Groundwater

Geographic Area:

United States

GO

[Click for News Bulletins](#)

Groundwater levels for the Nation

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

Agency code = usgs

site_no list =

- 323029103441801

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload**USGS 323029103441801 21S.31E.01.13143**

Eddy County, New Mexico

Latitude 32°30'29", Longitude 103°44'18" NAD27

Land-surface elevation 3,579 feet above NAVD88

The depth of the well is 36 feet below land surface.

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

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

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1968-05-29		D	72019	30.31			1	Z			A
1971-02-03		D	72019	26.30			1	Z			A
1972-09-18		D	72019	20.80			1	Z			A
1976-02-25		D	72019	19.68			1	Z			A
1976-12-28		D	72019	24.34			1	Z			A

Explanation

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

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Manzano, LLC

December 19, 2012

Manzano, LLC
DRILLING PROGRAM

Extracted from the "Application for Permit to Drill or Reenter" for NMOCD Well #30-025-41496, Little Valley Federal #001H.

Little Valley Fed #1

Surface Location: 660' FSL & 1050' FWL - Section 17-T21S- R32E
 Bottom Hole Location: 2310' FSL & 330 FWL - Section 18-T21S-R32E
 Lea County, New Mexico

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Manzano, LLC submits the following ten items of pertinent information in accordance with BLM requirements.

1. **Geological surface formation:** Permian
2. **The estimated tops of geologic markers are as follows:**

<u>Geologic Marker</u>	<u>Depth</u>
Red Beds	Surface
Rustler	1000'
Top of Salt	1100'
Base of Salt	3125'
Delaware	4500'MD/4490'TVD
Cherry Canyon	5640'MD/5475'TVD
Brushy Canyon	7180'MD/6770'TVD
Brushy "L" Sand	9150'MD/8325'TVD
TD	12835'MD/8300'TVD

3. **The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:**

Water	125'-200'
Oil/Gas in Delaware	4500'-12835'

No other formations are expected to give up oil, gas, or fresh water in measurable quantities.

The surface fresh water sands will be protected by setting 13 3/8" casing 50' into the Rustler Anhydrite at 1050' in a 17 1/2" hole and circulating cement back to surface. After the 13 3/8" casing is set and cemented, the hole size will be reduced to 12 1/4" and drilling will continue. Potash / salt sections will be protected by setting 8 5/8" casing 500' below the base of the Salt at 3625' and circulating cement back to surface.

The 8 5/8" casing will be drilled out with a 7 7/8" bit and drilled to a kick off point at 3704'TVD. At that point, directional drilling tools will be installed and the well will be "kicked off" and drilled on a 2.5 degrees per 100' angle to an orthodox

YATES PETROLEUM CORPORATION
Caper BFE Federal #16
 330' FSL and 990' FWL
 Section 17-T21S-R32E
 Lea County, New Mexico

Extracted from the "Application for Permit to Drill or Reenter" for NMOCD well #30-025-38101, Caper BFE Federal #016H.

1. The estimated tops of geologic markers are as follows:

Rustler	1028'	Brushy Canyon	6703'
Top of the Salt	1114'	Bone Spring	8463'
Base of Salt	4180'	TD	8750'
Bell Canyon	4482'		
Cherry Canyon	5396'		
2. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:

Water: 200'to 500'

Oil or Gas: All potential formations.

3. Pressure Control Equipment: BOPE will be installed on the 13 3/8' casing and the 8 5/8" casing and rated for 3000# BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings, which are set and cemented in place. Blowout Preventor controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventors will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B.

Auxiliary Equipment:

- A. Auxiliary Equipment: Kelly cock, pit level indicators, flow sensor equipment and a sub with full opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when kelly is not in use.
4. THE PROPOSED CASING AND CEMENTING PROGRAM:

A. Casing Program: (All New)

<u>Hole Size</u>	<u>Casing Size</u>	<u>Wt./Ft</u>	<u>Grade</u>	<u>Coupling</u>	<u>Interval</u>	<u>Length</u>
17.5"	13.375"	48#	H-40	ST&C	0-1050'	1050'
11.0"	8.625"	32#	J-55	ST&C	0-100'	100'
11.0"	8.625"	24#	J-55	ST&C	100-2100'	2000'
11.0"	8.625"	32#	J-55	ST&C	2100-4250'	2150'
7.875"	5.5"	17#	L-80	LT&C	0-100'	100'
7.875"	5.5"	15.5#	J-55	LT&C	100-7500'	7400'
7.875"	5.5"	17#	J-55	LT&C	7500-8750'	1250'

1. Minimum Casing Design Factors: Collapse 1.125, Burst 1.0, and Tensile Strength 1.8
2. A 3,000 psi BOP will be nipped up on the 13 3/8" and the 8 5/8" casing and tested to 3000 psi.
- B. CEMENTING PROGRAM:

YATES PETROLEUM CORPORATION

Anita "ALD" Federal #2
660' FSL and 660' FWL
Section 17-T21S-R32E
Lea County, New Mexico

Extracted from the "Application
for Permit to Drill, Deepen, or
Plug Back" for NMOCD well
#30-025-32135.

1. The estimated tops of geologic markers are as follows:

Rustler	956'
Top of Salt	1,332'
Bottom of Salt	3,157'
Bell Canyon	4,486'
Cherry Canyon	5,436'
Brushy Canyon	7,227'
Bone Spring	8,404'
TD	8,500'

2. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:

Water: 150'

Oil or Gas: ^ Canyon 5436' and Bone Springs 8404'

Brushy

3. Pressure Control Equipment: BOPE will be installed on the 13 3/8" casing and rated for 3000#. BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventors will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B.

4. Auxiliary Equipment and Proposed Casing Program:

- A. Auxiliary Equipment: Kelly cock, pit level indicators, flow sensor equipment, and a sub with full opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when kelly is not in use.
- B. Casing and Cementing Program:

Hole Size: 17 1/2"
Setting Depth: 1000'

Total Depth: 1000'
Mud Weight: 8.8 ppg

Casing Size: 13 3/8"

Casing Design:

<u>O.D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>	<u>Coupling</u>	<u>Interval</u>	<u>Length</u>
13 3/8	54.50#	J-55	8R	ST & C	0 - 1000'	1000'

Minimum Casing Design Factors: Collapse 1.125, Burst 1.0, Tensile Strength 1.8

Cement Program: Lead Slurry: 500 sacks "Lite C" with 1/4# sack Cellocel, 2% Caclz
Slurry Properties: Weight: 12.4 ppg Yield 1.98 cu.ft./sack

Tail Slurry 250 sacks "Class C" with 2% Caclz
Expected Linear Fill: Circulate to surface.
Slurry Properties: Weight: 14.8 ppg Yield 1.32 cu.ft./sack

Hole Size: 11"
Setting Depth: 4500'

Total Depth: 4500'
Mud Weight: 10.0 ppg

Casing Size: 8 5/8"

Appendix B

Photographic Log

Photographic Log

Photo Number: 1	 <p>2024.01.18 +32.472301,-103.703346 Lea County</p>
Photo Direction: Northeast	
Photo Description: View of the affected area.	

Photo Number: 2	 <p>2024.01.18 +32.473414,-103.702461 Lea County</p>
Photo Direction: Northwest	
Photo Description: View of the affected area.	

Photographic Log


Photo Number: 3	 <p>2024.01.18 +32.473523,-103.702570 Lea County</p>
Photo Direction: South-Southwest	
Photo Description: View of the affected area.	

Photo Number: 4	 <p>Feb 27, 2024 at 8:17:31 AM Hobbs NM 88240 United States</p>
Photo Direction: West	
Coordinates: 32.473711,-103.702513	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 5	 <p>Feb 27, 2024 at 8:18:20 AM Hobbs NM 88240 United States</p>
Photo Direction: South	
Coordinates: 32.473677,-103.702363	
Photo Description: View of the excavated area.	

Photo Number: 6	 <p>Feb 27, 2024 at 9:37:55 AM Hobbs NM 88240 United States</p>
Photo Direction: South-Southwest	
Coordinates: 32.473385,-103.702245	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 7	 <p>Feb 27, 2024 at 9:39:14 AM Hobbs NM 88240 United States</p>
Photo Direction: North-Northeast	
Coordinates: 32.472767,-103.702576	
Photo Description: View of the excavated area.	

Photo Number: 8	 <p>Feb 27, 2024 at 9:40:30 AM Hobbs NM 88240 United States</p>
Photo Direction: North	
Coordinates: 32.473454,-103.702695	
Photo Description: View of the excavated area.	

Photographic Log


Photo Number: 9	<div>Mar 4, 2024 at 12:35:44 PM +32.472822,-103.702222 ±11.41m 341° N</div> 
Photo Direction: North-Northwest	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 10	<div>Mar 4, 2024 at 12:35:51 PM +32.472822,-103.702222 ±11.41m 308° NW</div> 
Photo Direction: Northwest	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log

Photo Number: 11	
Photo Direction: South	
Photo Description: View of exploratory soil boring/temporary monitor well BH-1.	

Appendix C

Field Data



Sample Log

Date: _____

Project: Little Valley Fed 001H

Project Number: 19613 Latitude: 32.47332 Longitude: -103.702472

Sample ID	PID/Odor	Chloride Conc.	GPS
WW 1	-	1284	
WW 1	✓	768	
EW 1	-	ND	
NW 1	-	256	
SW 1	-	368	
FL-1 @ 1'	-	2580	
FL-2 @ 1'	-	1284	
FL-3 @ 1'	-	500	
FL-4 @ 1'	-	224	
FL-5 @ 1'	-	196	
FL-6 @ 1'	-	600	
FL-7 @ 1'	-	600	
FL-1 @ 2'	✓	ND	
FL-2 @ 2'	-	548	
FL-6 @ 2'	-	328	
FL-7 @ 2'	-	256	
WW 2	-	1800	
WW 2	✓	896	
WW 2	-	408	
FL-8 @ 1'	-	116	
FL-9 @ 1'	-	328	
FL-10 @ 1'	-	2580	
FL-11 @ 1'	-	712	
FL-10 @ 2'	-	2580	
FL-11 @ 2'	-	224	
WW 3	-	196	
FL-12 @ 1'	-	9676	
FL-13 @ 1'	-	548	
FL-14 @ 1'	-	224	
FL-15 @ 1'	-	408	
FL-10 @ 3'	-	2580	
FL-12 @ 3'	-	256	
FL-16 @ 1'	-	224	
FL-17 @ 1'	-	1572	
FL-10 @ 4'	-	768	
FL-18 @ 1'	-	256	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: Little Valley Fed 001H

Project Number: 19613 Latitude: 32.47332 Longitude: -103.702472

Sample ID	PID/Odor	Chloride Conc.	GPS
FL-19 @ 1'	-	2224	
FL-17 @ 2'	-	652	
FL-19 @ 2'	-	256	
FL-17 @ 3'	-	500	
WW 4	-	3452	
WW 4	-	2580	
WW 4	-	500	
FL-20 @ 1'	-	4000	
FL-21 @ 1'	-	4428	
FL-22 @ 1'	-	196	
FL-23 @ 1'	-	408	
FL-24 @ 1'	-	5616	
FL-25 @ 1'	-	3786	
WW 5	-	4796	
WW 5	-	408	
FL-21 @ 2'	-	1468	
FL-20 @ 2'	-	1372	
FL-24 @ 2'	-	408	
FL-25 @ 2'	-	2580	
FL-20 @ 3'	-	168	
FL-21 @ 3'	-	500	
FL-25 @ 3'	-	2580	
FL-25 @ 4'	-	1684	
FL-26 @ 1'	-	2580	
FL-27 @ 1'	-	2580	
FL-28 @ 1'	-	2580	
FL-29 @ 1'	-	896	
FL-26 @ 4'	-	896	
FL-27 @ 4'	-	896	
FL-28 @ 4'	-	832	
FL-29 @ 4'	-	368	
FL-30 @ 4'	-	408	
FL-31 @ 4'	-	1040	
FL-32 @ 4'	-	2580	
FL-33 @ 4'	-	224	
FL-34 @ 1'	-	652	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: Little Valley Fed 001H

Project Number: 19613 Latitude: 32.47332 Longitude: -103.702472

Sample ID	PID/Odor	Chloride Conc.	GPS
FL-35 @ 1'	-	1284	
FL-36 @ 1'	-	2580	
FL-37 @ 1'	-	2580	
WW6	-	292	
FL-34 @ 2'	-	600	
FL-34 @ 4'	-	408	
FL-35 @ 4'	-	500	
FL-36 @ 4'	-	2580	
FL-37 @ 4'	-	ND	
FL-38 @ 2'	-	548	
FL-39 @ 2'	-	11376	
FL-40 @ 2'	-	8940	
FL-41 @ 2'	-	14768	
FL-39 @ 4'	-	2392	
FL-40 @ 4'	-	548	
FL-41 @ 4'	-	600	
FL-42 @ 2'	-	196	
FL-43 @ 3'	-	548	
FL-44 @ 2'	-	256	
SW 2	-	368	
FL-45 @ 2'	-	256	
EW 2	-	452	
FL-46 @ 2'	-	896	
FL-47 @ 2'	-	1040	
FL 48 @ 2'	-	2580	
FL 46 @ 3'	-	600	
FL 47 @ 3'	-	2580	
FL 48 @ 3'	-	1040	
FL 46 @ 4'	-	600	
FL-47 @ 4'	-	600	
FL-48 @ 4'	-	2580	
FL-49 @ 2'	-	2392	
FL-50 @ 2'	-	1284	
FL-49 @ 3'	-	896	
FL-50 @ 3'	-	2580	
FL-49 @ 4'	-	2580	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

 Project: _____
 Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL-50 @ 4'	-	4428	
FL-51 @ 4'	-	408	
FL-52 @ 4'	-	4196	
FL-53 @ 2'	-	4428	
FL-54 @ 2'	-	1040	
FL-55 @ 2'	-	1392	
FL-56 @ 2'	-	3756	
FL-57 @ 2'	-	408	
FL-53 @ 4'	-	896	
FL-54 @ 4'	-	408	
FL-55 @ 4'	-	832	
FL-56 @ 4'	-	1496	
FL-58 @ 1'	-	2500	
FL-59 @ 1'	-	196	
FL-60 @ 1'	-	196	
FL-61 @ 1'	-	196	
FL-62 @ 1'	-	328	
FL-63 @ 1'	-	224	
FL-64 @ 1'	-	408	
FL-65 @ 1'	-	168	
FL-58 @ 2'	-	408	
FL-66 @ 1'	-	224	
FL-67 @ 2'	-	432	
FL-68 @ 2'	-	408	
FL-69 @ 2'	-	548	
EW3	-	1196	
FL-70 @ 2'	-	708	
EW to SF	-	832	
FL-67 @ 4'	-	1196	
FL-70 @ 3'	-	500	
FL-71 @ 2'	-	224	
FL-72 @ 1'	-	712	
FL-73 @ 1'	-	684	
FL-74 @ 1'	-	180	
FL-75 @ 1'	-	2140	
FL-76 @ 1'	-	2560	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

 Project: _____
 Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL - 77 @ 1'	—	600	
FL - 78 @ 1'	—	408	
FL - 79 @ 1'	—	712	
FL - 80 @ 1'	—	600	
FL - 81 @ 1'	—	3452	
FL - 82 @ 1'	—	408	
FL - 83 @ 1'	—	776	
FL - 84 @ 1'	—	1416	
FL - 85 @ 1'	—	4080	
FL - 86 @ 1'	—	552	
FL - 87 @ 1'	—	408	
FL - 88 @ 1'	—	260	
NW TEST	—	1312	
FL - 92 @ 2'	—	292	
FL - 93 @ 2'	—	456	
FL - 94 @ 2'	—	172	
FL - 95 @ 2'	—	228	
FL - 96 @ 2'	—	552	
FL - 97 @ 2'	—	600	
FL - 98 @ 2'	—	600	
FL - 99 @ 2'	—	332	
FL - 83 @ 2'	—	552	
FL - 84 @ 2'	—	600	
FL - 85 @ 2'	—	2500	
FL - 97 @ 3'	—	412	
FL - 99 @ 3'	—	412	
FL - 84 @ 3'	—	114	
FL - 85 @ 4'	—	332	
NW-2	—	ND	
FL - 90 @ 2'	—	600	
FL - 91 @ 2'	—	1136	
FL - 92 @ 2'	—	412	
FL - 93 @ 2'	—	412	
FL - 94 @ 2'	—	604	
FL - 95 @ 2'	—	840	
FL - 96 @ 2'	—	840	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: _____

Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL-97 @ 2'	-	3169	FL-106 @ 1' - 224
FL-90 @ 3'	-	2304	FL-107 @ 1' - 768
FL-91 @ 2'	-	412	FL-108 @ 1' - 832
EW 3	-	412	FL-109 @ 1' - 716
FL-90 @ 4'	-	1220	FL-110 @ 1' - 548
FL-95 @ 3'	-	552	FL-111 @ 1' - 716
FL-96 @ 3'	-	504	FL-112 @ 1' - 256
FL-97 @ 3'	-	552	FL-113 @ 1' - 408
FL-94 @ 3'	-	412	EW test - 548
FL-98 @ 2'	-	332	FL-114 @ 1' - 368
FL-89 @ 2'	-	196	FL-114 @ 1' - 292
FL-98 @ 1'	-	1281	FL-107 @ 2' - 328
FL-99 @ 1'	-	716	FL-108 @ 2' - 604
FL-100 @ 1'	-	1572	FL-109 @ 2' - 292
FL-101 @ 1'	-	2500	FL-111 @ 2' - 832
FL-102 @ 1'	-	1468	FL-108 @ 3' - 908
FL-103 @ 1'	-	1289	FL-111 @ 4' - 368
FL-104 @ 1'	-	652	FL-8 @ 4' - 660
FL-105 @ 1'	-	408	FL-15 @ 2' - 9852
EW TEST	-	2500	FL-15 @ 4' - 1616
FL-98 @ 2'	-	652	
FL-99 @ 2'	-	368	
FL-106 @ 2'	-	548	
FL-101 @ 3'	-	462	
FL-102 @ 2'	-	2072	
FL-103 @ 2'	-	2580	
FL-104 @ 2'	-	832	
EW test	-	408	
nw test	-	368	
FL-98 @ 3'	-	408	
FL-102 @ 3'	-	832	
FL-103 @ 3'	-	652	
FL-104 @ 3'	-	1800	
FL-102 @ 4'	-	548	
FL-103 @ 4'	-	168	
FL-104 @ 4'	-	ND	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

1/2nd 3 north wally

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Appendix D

Laboratory Analytical Reports



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

February 26, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LITTLE VALLEY FED 1H

Enclosed are the results of analyses for samples received by the laboratory on 02/20/24 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/20/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 1 @ 2' (H240831-01)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/23/2024	ND	2.24	112	2.00	4.97		
Toluene*	<0.050	0.050	02/23/2024	ND	2.22	111	2.00	4.25		
Ethylbenzene*	<0.050	0.050	02/23/2024	ND	2.18	109	2.00	4.83		
Total Xylenes*	<0.150	0.150	02/23/2024	ND	6.59	110	6.00	4.34		
Total BTX	<0.300	0.300	02/23/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/22/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2024	ND	201	101	200	1.77	
DRO >C10-C28*	<10.0	10.0	02/21/2024	ND	193	96.5	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	02/21/2024	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

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: 02/20/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 2 @ 2' (H240831-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2024	ND	2.24	112	2.00	4.97	
Toluene*	<0.050	0.050	02/23/2024	ND	2.22	111	2.00	4.25	
Ethylbenzene*	<0.050	0.050	02/23/2024	ND	2.18	109	2.00	4.83	
Total Xylenes*	<0.150	0.150	02/23/2024	ND	6.59	110	6.00	4.34	
Total BTEx	<0.300	0.300	02/23/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/22/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2024	ND	201	101	200	1.77	
DRO >C10-C28*	<10.0	10.0	02/21/2024	ND	193	96.5	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	02/21/2024	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 3 @ 1' (H240831-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/23/2024	ND	2.24	112	2.00	4.97		
Toluene*	<0.050	0.050	02/23/2024	ND	2.22	111	2.00	4.25		
Ethylbenzene*	<0.050	0.050	02/23/2024	ND	2.18	109	2.00	4.83		
Total Xylenes*	<0.150	0.150	02/23/2024	ND	6.59	110	6.00	4.34		
Total BTEX	<0.300	0.300	02/23/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	02/22/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2024	ND	201	101	200	1.77	
DRO >C10-C28*	<10.0	10.0	02/21/2024	ND	193	96.5	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	02/21/2024	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 4 @ 1' (H240831-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/23/2024	ND	2.24	112	2.00	4.97		
Toluene*	<0.050	0.050	02/23/2024	ND	2.22	111	2.00	4.25		
Ethylbenzene*	<0.050	0.050	02/23/2024	ND	2.18	109	2.00	4.83		
Total Xylenes*	<0.150	0.150	02/23/2024	ND	6.59	110	6.00	4.34		
Total BTEX	<0.300	0.300	02/23/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/22/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2024	ND	201	101	200	1.77	
DRO >C10-C28*	<10.0	10.0	02/21/2024	ND	193	96.5	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	02/21/2024	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 5 @ 1' (H240831-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/23/2024	ND	2.24	112	2.00	4.97		
Toluene*	<0.050	0.050	02/23/2024	ND	2.22	111	2.00	4.25		
Ethylbenzene*	<0.050	0.050	02/23/2024	ND	2.18	109	2.00	4.83		
Total Xylenes*	<0.150	0.150	02/23/2024	ND	6.59	110	6.00	4.34		
Total BTEX	<0.300	0.300	02/23/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/22/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2024	ND	201	101	200	1.77	
DRO >C10-C28*	<10.0	10.0	02/21/2024	ND	193	96.5	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	02/21/2024	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 6 @ 2' (H240831-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/23/2024	ND	2.24	112	2.00	4.97		
Toluene*	<0.050	0.050	02/23/2024	ND	2.22	111	2.00	4.25		
Ethylbenzene*	<0.050	0.050	02/23/2024	ND	2.18	109	2.00	4.83		
Total Xylenes*	<0.150	0.150	02/23/2024	ND	6.59	110	6.00	4.34		
Total BTEX	<0.300	0.300	02/23/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/22/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2024	ND	201	101	200	1.77	
DRO >C10-C28*	<10.0	10.0	02/21/2024	ND	193	96.5	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	02/21/2024	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 7 @ 2' (H240831-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/23/2024	ND	2.24	112	2.00	4.97		
Toluene*	<0.050	0.050	02/23/2024	ND	2.22	111	2.00	4.25		
Ethylbenzene*	<0.050	0.050	02/23/2024	ND	2.18	109	2.00	4.83		
Total Xylenes*	<0.150	0.150	02/23/2024	ND	6.59	110	6.00	4.34		
Total BTEX	<0.300	0.300	02/23/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/22/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2024	ND	201	101	200	1.77	
DRO >C10-C28*	<10.0	10.0	02/21/2024	ND	193	96.5	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	02/21/2024	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 8 @ 1' (H240831-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2024	ND	2.24	112	2.00	4.97	
Toluene*	<0.050	0.050	02/23/2024	ND	2.22	111	2.00	4.25	
Ethylbenzene*	<0.050	0.050	02/23/2024	ND	2.18	109	2.00	4.83	
Total Xylenes*	<0.150	0.150	02/23/2024	ND	6.59	110	6.00	4.34	
Total BTEX	<0.300	0.300	02/23/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2024	ND	201	101	200	1.77	
DRO >C10-C28*	<10.0	10.0	02/21/2024	ND	193	96.5	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	02/21/2024	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/20/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 9 @ 1' (H240831-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/23/2024	ND	2.24	112	2.00	4.97		
Toluene*	<0.050	0.050	02/23/2024	ND	2.22	111	2.00	4.25		
Ethylbenzene*	<0.050	0.050	02/23/2024	ND	2.18	109	2.00	4.83		
Total Xylenes*	<0.150	0.150	02/23/2024	ND	6.59	110	6.00	4.34		
Total BTEX	<0.300	0.300	02/23/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2024	ND	201	101	200	1.77	
DRO >C10-C28*	<10.0	10.0	02/21/2024	ND	193	96.5	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	02/21/2024	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.7 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/20/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 1 (H240831-10)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2024	ND	2.24	112	2.00	4.97	
Toluene*	<0.050	0.050	02/23/2024	ND	2.22	111	2.00	4.25	
Ethylbenzene*	<0.050	0.050	02/23/2024	ND	2.18	109	2.00	4.83	
Total Xylenes*	<0.150	0.150	02/23/2024	ND	6.59	110	6.00	4.34	
Total BTEX	<0.300	0.300	02/23/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2024	ND	201	101	200	1.77	
DRO >C10-C28*	<10.0	10.0	02/21/2024	ND	193	96.5	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	02/21/2024	ND					

Surrogate: 1-Chlorooctane 76.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/20/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 1 (H240831-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2024	ND	2.24	112	2.00	4.97	
Toluene*	<0.050	0.050	02/23/2024	ND	2.22	111	2.00	4.25	
Ethylbenzene*	<0.050	0.050	02/23/2024	ND	2.18	109	2.00	4.83	
Total Xylenes*	<0.150	0.150	02/23/2024	ND	6.59	110	6.00	4.34	
Total BTEX	<0.300	0.300	02/23/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2024	ND	197	98.4	200	1.20	
DRO >C10-C28*	<10.0	10.0	02/22/2024	ND	201	100	200	4.02	
EXT DRO >C28-C36	<10.0	10.0	02/22/2024	ND					

Surrogate: 1-Chlorooctane 67.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/20/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 1 (H240831-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/23/2024	ND	2.24	112	2.00	4.97		
Toluene*	<0.050	0.050	02/23/2024	ND	2.22	111	2.00	4.25		
Ethylbenzene*	<0.050	0.050	02/23/2024	ND	2.18	109	2.00	4.83		
Total Xylenes*	<0.150	0.150	02/23/2024	ND	6.59	110	6.00	4.34		
Total BTEX	<0.300	0.300	02/23/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2024	ND	197	98.4	200	1.20	
DRO >C10-C28*	<10.0	10.0	02/22/2024	ND	201	100	200	4.02	
EXT DRO >C28-C36	<10.0	10.0	02/22/2024	ND					

Surrogate: 1-Chlorooctane 70.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/20/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 1 (H240831-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2024	ND	2.24	112	2.00	4.97	
Toluene*	<0.050	0.050	02/23/2024	ND	2.22	111	2.00	4.25	
Ethylbenzene*	<0.050	0.050	02/23/2024	ND	2.18	109	2.00	4.83	
Total Xylenes*	<0.150	0.150	02/23/2024	ND	6.59	110	6.00	4.34	
Total BTEX	<0.300	0.300	02/23/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/22/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2024	ND	197	98.4	200	1.20	
DRO >C10-C28*	<10.0	10.0	02/22/2024	ND	201	100	200	4.02	
EXT DRO >C28-C36	<10.0	10.0	02/22/2024	ND					

Surrogate: 1-Chlorooctane 61.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/20/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 2 (H240831-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/23/2024	ND	2.24	112	2.00	4.97		
Toluene*	<0.050	0.050	02/23/2024	ND	2.22	111	2.00	4.25		
Ethylbenzene*	<0.050	0.050	02/23/2024	ND	2.18	109	2.00	4.83		
Total Xylenes*	<0.150	0.150	02/23/2024	ND	6.59	110	6.00	4.34		
Total BTEX	<0.300	0.300	02/23/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2024	ND	197	98.4	200	1.20	
DRO >C10-C28*	<10.0	10.0	02/22/2024	ND	201	100	200	4.02	
EXT DRO >C28-C36	<10.0	10.0	02/22/2024	ND					

Surrogate: 1-Chlorooctane 73.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.3 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																					
Project Manager: Lance Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																																					
Address: 2617 West Marland				Company Mewbourne																																									
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																																									
Phone #: (575) 264-9884 Fax #:				Address:																																									
Project #: 19613 Project Owner: Mewbourne				City:																																									
Project Name: Little Valley Fed 1H				State: NM Zip:																																									
Project Location: GPS: (32.47332, -103.702472)				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		OTHER :		DATE		TIME																	
1240831				C 1				X												X				2/20/24				X		X		X													
1		FL 1 @ 2'		C 1				X												X				2/20/24				X		X		X													
2		FL 2 @ 2'		C 1				X												X				2/20/24				X		X		X													
3		FL 3 @ 1'		C 1				X												X				2/20/24				X		X		X													
4		FL 4 @ 1'		C 1				X												X				2/20/24				X		X		X													
5		FL 5 @ 1'		C 1				X												X				2/20/24				X		X		X													
6		FL 6 @ 2'		C 1				X												X				2/20/24				X		X		X													
7		FL 7 @ 2'		C 1				X												X				2/20/24				X		X		X													
8		FL 8 @ 1'		C 1				X												X				2/20/24				X		X		X													
9		FL 9 @ 1'		C 1				X												X				2/20/24				X		X		X													
10		NW 1		C 1				X												X				2/20/24				X		X		X													
<p>PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																													
Relinquished By:				Date: 2-20-24				Received By: Skodriguez				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																													
				Time: 1445								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																													
Relinquished By:				Date:				Received By:				REMARKS:																																	
				Time:																																									
Delivered By: (Circle One)				4.2c				Sample Condition				CHECKED BY:				Please email results and copy of CoC to pm@etechenv.com.																													
Sampler - UPS - Bus - Other:				#140				Cool Intact				(Initials)																																	
								<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				8/2																																	



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 18 of 18

[illegible]



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

February 26, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LITTLE VALLEY FED 1H

Enclosed are the results of analyses for samples received by the laboratory on 02/21/24 14:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 10 @ 4' (H240856-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2024	ND	2.13	107	2.00	6.12	
Toluene*	<0.050	0.050	02/24/2024	ND	2.11	106	2.00	6.17	
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.08	104	2.00	5.95	
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.08	101	6.00	6.27	
Total BTX	<0.300	0.300	02/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	02/26/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	202	101	200	1.24	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	196	97.9	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 11 @ 2' (H240856-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.13	107	2.00	6.12		
Toluene*	<0.050	0.050	02/24/2024	ND	2.11	106	2.00	6.17		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.08	104	2.00	5.95		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.08	101	6.00	6.27		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	202	101	200	1.24	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	196	97.9	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 12 @ 3' (H240856-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.13	107	2.00	6.12		
Toluene*	<0.050	0.050	02/24/2024	ND	2.11	106	2.00	6.17		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.08	104	2.00	5.95		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.08	101	6.00	6.27		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	202	101	200	1.24	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	196	97.9	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
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Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 13 @ 1' (H240856-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.13	107	2.00	6.12		
Toluene*	<0.050	0.050	02/24/2024	ND	2.11	106	2.00	6.17		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.08	104	2.00	5.95		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.08	101	6.00	6.27		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	192	95.8	200	0.973	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	191	95.5	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 14 @ 1' (H240856-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.13	107	2.00	6.12		
Toluene*	<0.050	0.050	02/24/2024	ND	2.11	106	2.00	6.17		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.08	104	2.00	5.95		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.08	101	6.00	6.27		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	192	95.8	200	0.973	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	191	95.5	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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 HOBBS NM, 88240
 Fax To:

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 15 @ 1' (H240856-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.13	107	2.00	6.12		
Toluene*	<0.050	0.050	02/24/2024	ND	2.11	106	2.00	6.17		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.08	104	2.00	5.95		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.08	101	6.00	6.27		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	192	95.8	200	0.973	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	191	95.5	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 16 @ 1' (H240856-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.13	107	2.00	6.12		
Toluene*	<0.050	0.050	02/24/2024	ND	2.11	106	2.00	6.17		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.08	104	2.00	5.95		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.08	101	6.00	6.27		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	192	95.8	200	0.973	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	191	95.5	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 17 @ 3' (H240856-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.13	107	2.00	6.12		
Toluene*	<0.050	0.050	02/24/2024	ND	2.11	106	2.00	6.17		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.08	104	2.00	5.95		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.08	101	6.00	6.27		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	192	95.8	200	0.973	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	191	95.5	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 18 @ 1' (H240856-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.13	107	2.00	6.12		
Toluene*	<0.050	0.050	02/24/2024	ND	2.11	106	2.00	6.17		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.08	104	2.00	5.95		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.08	101	6.00	6.27		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	192	95.8	200	0.973	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	191	95.5	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 19 @ 2' (H240856-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.13	107	2.00	6.12		
Toluene*	<0.050	0.050	02/24/2024	ND	2.11	106	2.00	6.17		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.08	104	2.00	5.95		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.08	101	6.00	6.27		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	192	95.8	200	0.973	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	191	95.5	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 20 @ 3' (H240856-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.13	107	2.00	6.12		
Toluene*	<0.050	0.050	02/24/2024	ND	2.11	106	2.00	6.17		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.08	104	2.00	5.95		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.08	101	6.00	6.27		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	192	95.8	200	0.973	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	191	95.5	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 21 @ 3' (H240856-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.13	107	2.00	6.12		
Toluene*	<0.050	0.050	02/24/2024	ND	2.11	106	2.00	6.17		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.08	104	2.00	5.95		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.08	101	6.00	6.27		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	192	95.8	200	0.973	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	191	95.5	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 49.1-148

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Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 22 @ 1' (H240856-13)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.13	107	2.00	6.12		
Toluene*	<0.050	0.050	02/24/2024	ND	2.11	106	2.00	6.17		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.08	104	2.00	5.95		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.08	101	6.00	6.27		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	192	95.8	200	0.973	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	191	95.5	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 49.1-148

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Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 23 @ 1' (H240856-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.13	107	2.00	6.12		
Toluene*	<0.050	0.050	02/24/2024	ND	2.11	106	2.00	6.17		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.08	104	2.00	5.95		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.08	101	6.00	6.27		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	192	95.8	200	0.973	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	191	95.5	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 24 @ 2' (H240856-15)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.13	107	2.00	6.12		
Toluene*	<0.050	0.050	02/24/2024	ND	2.11	106	2.00	6.17		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.08	104	2.00	5.95		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.08	101	6.00	6.27		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	192	95.8	200	0.973	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	191	95.5	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 25 @ 4' (H240856-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2024	ND	2.13	107	2.00	6.12	
Toluene*	<0.050	0.050	02/24/2024	ND	2.11	106	2.00	6.17	
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.08	104	2.00	5.95	
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.08	101	6.00	6.27	
Total BTEX	<0.300	0.300	02/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	192	95.8	200	0.973	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	191	95.5	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 26 @ 4' (H240856-17)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.13	107	2.00	6.12		
Toluene*	<0.050	0.050	02/24/2024	ND	2.11	106	2.00	6.17		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.08	104	2.00	5.95		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.08	101	6.00	6.27		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	960	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	192	95.8	200	0.973	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	191	95.5	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 27 @ 4' (H240856-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.15	108	2.00	2.47		
Toluene*	<0.050	0.050	02/24/2024	ND	2.14	107	2.00	2.87		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.10	105	2.00	2.61		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.14	102	6.00	2.99		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	192	95.8	200	0.973	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	191	95.5	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 28 @ 4' (H240856-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.15	108	2.00	2.47		
Toluene*	<0.050	0.050	02/24/2024	ND	2.14	107	2.00	2.87		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.10	105	2.00	2.61		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.14	102	6.00	2.99		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	192	95.8	200	0.973	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	191	95.5	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 29 @ 4' (H240856-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.15	108	2.00	2.47		
Toluene*	<0.050	0.050	02/24/2024	ND	2.14	107	2.00	2.87		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.10	105	2.00	2.61		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.14	102	6.00	2.99		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	192	95.8	200	0.973	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	191	95.5	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 30 @ 4' (H240856-21)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2024	ND	2.15	108	2.00	2.47	
Toluene*	<0.050	0.050	02/24/2024	ND	2.14	107	2.00	2.87	
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.10	105	2.00	2.61	
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.14	102	6.00	2.99	
Total BTEX	<0.300	0.300	02/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	192	95.8	200	0.973	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	191	95.5	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 31 @ 4' (H240856-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.15	108	2.00	2.47		
Toluene*	<0.050	0.050	02/24/2024	ND	2.14	107	2.00	2.87		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.10	105	2.00	2.61		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.14	102	6.00	2.99		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	02/26/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	192	95.8	200	0.973	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	191	95.5	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 32 @ 4' (H240856-23)

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	02/24/2024	ND	2.15	108	2.00	2.47		
Toluene*	<0.050	0.050	02/24/2024	ND	2.14	107	2.00	2.87		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.10	105	2.00	2.61		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.14	102	6.00	2.99		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	192	95.8	200	0.973	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	191	95.5	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 33 @ 4' (H240856-24)

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	02/24/2024	ND	2.15	108	2.00	2.47		
Toluene*	<0.050	0.050	02/24/2024	ND	2.14	107	2.00	2.87		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.10	105	2.00	2.61		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.14	102	6.00	2.99		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	203	101	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 34 @ 4' (H240856-25)

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	02/24/2024	ND	2.15	108	2.00	2.47		
Toluene*	<0.050	0.050	02/24/2024	ND	2.14	107	2.00	2.87		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.10	105	2.00	2.61		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.14	102	6.00	2.99		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	203	101	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 35 @ 4' (H240856-26)

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	02/24/2024	ND	2.15	108	2.00	2.47		
Toluene*	<0.050	0.050	02/24/2024	ND	2.14	107	2.00	2.87		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.10	105	2.00	2.61		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.14	102	6.00	2.99		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	203	101	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 36 @ 4' (H240856-27)

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	02/24/2024	ND	2.15	108	2.00	2.47		
Toluene*	<0.050	0.050	02/24/2024	ND	2.14	107	2.00	2.87		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.10	105	2.00	2.61		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.14	102	6.00	2.99		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3080	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	203	101	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 37 @ 4' (H240856-28)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.15	108	2.00	2.47		
Toluene*	<0.050	0.050	02/24/2024	ND	2.14	107	2.00	2.87		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.10	105	2.00	2.61		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.14	102	6.00	2.99		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	203	101	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 38 @ 2' (H240856-29)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.15	108	2.00	2.47		
Toluene*	<0.050	0.050	02/24/2024	ND	2.14	107	2.00	2.87		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.10	105	2.00	2.61		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.14	102	6.00	2.99		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	02/26/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	203	101	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

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Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 39 @ 4' (H240856-30)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.15	108	2.00	2.47		
Toluene*	<0.050	0.050	02/24/2024	ND	2.14	107	2.00	2.87		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.10	105	2.00	2.61		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.14	102	6.00	2.99		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1410	16.0	02/26/2024	ND	432	108	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	203	101	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 49.1-148

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Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 40 @ 4' (H240856-31)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.15	108	2.00	2.47		
Toluene*	<0.050	0.050	02/24/2024	ND	2.14	107	2.00	2.87		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.10	105	2.00	2.61		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.14	102	6.00	2.99		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	02/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	203	101	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 41 @ 4' (H240856-32)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.15	108	2.00	2.47		
Toluene*	<0.050	0.050	02/24/2024	ND	2.14	107	2.00	2.87		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.10	105	2.00	2.61		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.14	102	6.00	2.99		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	02/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	203	101	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 42 @ 2' (H240856-33)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.15	108	2.00	2.47		
Toluene*	<0.050	0.050	02/24/2024	ND	2.14	107	2.00	2.87		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.10	105	2.00	2.61		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.14	102	6.00	2.99		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	203	101	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 49.1-148

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Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 43 @ 3' (H240856-34)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/24/2024	ND	2.15	108	2.00	2.47		
Toluene*	<0.050	0.050	02/24/2024	ND	2.14	107	2.00	2.87		
Ethylbenzene*	<0.050	0.050	02/24/2024	ND	2.10	105	2.00	2.61		
Total Xylenes*	<0.150	0.150	02/24/2024	ND	6.14	102	6.00	2.99		
Total BTEX	<0.300	0.300	02/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	203	101	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 44 @ 2' (H240856-35)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2024	ND	2.15	108	2.00	2.47		
Toluene*	<0.050	0.050	02/25/2024	ND	2.14	107	2.00	2.87		
Ethylbenzene*	<0.050	0.050	02/25/2024	ND	2.10	105	2.00	2.61		
Total Xylenes*	<0.150	0.150	02/25/2024	ND	6.14	102	6.00	2.99		
Total BTEX	<0.300	0.300	02/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	02/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	202	101	200	1.76	
DRO >C10-C28*	26.1	10.0	02/23/2024	ND	203	101	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 45 @ 2' (H240856-36)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2024	ND	2.15	108	2.00	2.47		
Toluene*	<0.050	0.050	02/25/2024	ND	2.14	107	2.00	2.87		
Ethylbenzene*	<0.050	0.050	02/25/2024	ND	2.10	105	2.00	2.61		
Total Xylenes*	<0.150	0.150	02/25/2024	ND	6.14	102	6.00	2.99		
Total BTEX	<0.300	0.300	02/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	203	101	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: WW 3 (H240856-37)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2024	ND	2.15	108	2.00	2.47		
Toluene*	<0.050	0.050	02/25/2024	ND	2.14	107	2.00	2.87		
Ethylbenzene*	<0.050	0.050	02/25/2024	ND	2.10	105	2.00	2.61		
Total Xylenes*	<0.150	0.150	02/25/2024	ND	6.14	102	6.00	2.99		
Total BTEX	<0.300	0.300	02/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	203	101	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: WW 4 (H240856-38)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2024	ND	2.15	107	2.00	2.07	
Toluene*	<0.050	0.050	02/25/2024	ND	2.12	106	2.00	2.11	
Ethylbenzene*	<0.050	0.050	02/25/2024	ND	2.09	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	02/25/2024	ND	6.10	102	6.00	1.71	
Total BTEX	<0.300	0.300	02/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	203	101	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: WW 5 (H240856-39)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2024	ND	2.15	107	2.00	2.07	
Toluene*	<0.050	0.050	02/25/2024	ND	2.12	106	2.00	2.11	
Ethylbenzene*	<0.050	0.050	02/25/2024	ND	2.09	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	02/25/2024	ND	6.10	102	6.00	1.71	
Total BTEX	<0.300	0.300	02/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/26/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	203	101	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: WW 6 (H240856-40)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2024	ND	2.15	107	2.00	2.07	
Toluene*	<0.050	0.050	02/25/2024	ND	2.12	106	2.00	2.11	
Ethylbenzene*	<0.050	0.050	02/25/2024	ND	2.09	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	02/25/2024	ND	6.10	102	6.00	1.71	
Total BTEX	<0.300	0.300	02/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/26/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	203	101	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: EW 2 (H240856-41)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2024	ND	2.15	107	2.00	2.07		
Toluene*	<0.050	0.050	02/25/2024	ND	2.12	106	2.00	2.11		
Ethylbenzene*	<0.050	0.050	02/25/2024	ND	2.09	104	2.00	1.83		
Total Xylenes*	<0.150	0.150	02/25/2024	ND	6.10	102	6.00	1.71		
Total BTEX	<0.300	0.300	02/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	203	101	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/21/2024
 Reported: 02/26/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW 2 (H240856-42)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2024	ND	2.15	107	2.00	2.07	
Toluene*	<0.050	0.050	02/25/2024	ND	2.12	106	2.00	2.11	
Ethylbenzene*	<0.050	0.050	02/25/2024	ND	2.09	104	2.00	1.83	
Total Xylenes*	<0.150	0.150	02/25/2024	ND	6.10	102	6.00	1.71	
Total BTEX	<0.300	0.300	02/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/26/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/23/2024	ND	203	101	200	3.54	
EXT DRO >C28-C36	<10.0	10.0	02/23/2024	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "C. D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																					
Project Manager: Lance Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																																					
Address: 2617 West Marland				Company: Mewbourne																																									
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																																									
Phone #: (575) 264-9884 Fax #:				Address:																																									
Project #: 19613 Project Owner: Mewbourne				City:																																									
Project Name: Little Valley Fed 1H				State: NM Zip:																																									
Project Location: GPS: (32.47332, -103.702472)				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		OTHER:		DATE		TIME																	
1		FL10 @ 4'		C		1				X										X				2/20/24				X		X		X													
2		FL11 @ 2'		C		1				X										X				2/20/24				X		X		X													
3		FL12 @ 3'		C		1				X										X				2/20/24				X		X		X													
4		FL13 @ 1'		C		1				X										X				2/20/24				X		X		X													
5		FL14 @ 1'		C		1				X										X				2/20/24				X		X		X													
6		FL15 @ 1'		C		1				X										X				2/20/24				X		X		X													
7		FL16 @ 1'		C		1				X										X				2/20/24				X		X		X													
8		FL17 @ 3'		C		1				X										X				2/20/24				X		X		X													
9		FL18 @ 1'		C		1				X										X				2/20/24				X		X		X													
10		FL19 @ 2'		C		1				X										X				2/20/24				X		X		X													
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																													
Relinquished By:				Date: 2/21/24				Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																													
				Time: 14:49								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																													
Relinquished By:				Date:				Received By:				REMARKS:																																	
				Time:																																									
Delivered By: (Circle One)				- 9.1"				Sample Condition				CHECKED BY:				Please email results and copy of CoC to pm@etechenv.com.																													
Sampler - UPS - Bus - Other:				#140				Cool Intact				(Initials)																																	
								<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				OH																																	



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.										BILL TO										ANALYSIS REQUEST																																																																																																																																																					
Project Manager: Lance Crenshaw										P.O. #:										<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																																																																																																																																																					
Address: 2617 West Marland										Company: Mewbourne																																																																																																																																																															
City: Hobbs State: NM Zip: 88240										Attn: Connor Walker																																																																																																																																																															
Phone #: (575) 264-9884 Fax #:										Address:																																																																																																																																																															
Project #: 19613 Project Owner: Mewbourne										City:																																																																																																																																																															
Project Name: Little Valley Fed 1H										State: NM Zip:																																																																																																																																																															
Project Location: GPS: (32.47332, -103.702472)										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										OTHER:										DATE										TIME																													
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13										FL22 @ 1'										C 1																														X																																																		X										2/20/24																				X										X										X																			
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15										FL24 @ 2'										C 1																														X																																																		X										2/20/24																				X										X										X																			
16										FL25 @ 4'										C 1																														X																																																		X										2/20/24																				X										X										X																			
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18										FL27 @ 4'										C 1																														X																																																		X										2/20/24																				X										X										X																			
19										FL28 @ 4'										C 1																														X																																																		X										2/20/24																				X										X										X																			
20										FL29 @ 4'										C 1																														X																																																		X										2/20/24																				X										X										X																			
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																																																																																																																																																									
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FORM-006
Revision 1.0

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

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																						
Project Manager: Lance Crenshaw				P.O. #:				<div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div>																						
Address: 2617 West Marland				Company: Mewbourne																										
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																										
Phone #: (575) 264-9884 Fax #:				Address:																										
Project #: 19613 Project Owner: Mewbourne				City:																										
Project Name: Little Valley Fed 1H				State: NM Zip:																										
Project Location: GPS: (32.47332, -103.702472)				Phone #:																										
Sampler Name: Aaron Rios				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															
8/2408576																														
21	FL30 @ 4'		C	1			X				X			2/20/24		X	X	X												
22	FL31 @ 4'		C	1			X				X			2/20/24		X	X	X												
23	FL32 @ 4'		C	1			X				X			2/20/24		X	X	X												
24	FL33 @ 4'		C	1			X				X			2/20/24		X	X	X												
25	FL34 @ 4'		C	1			X				X			2/20/24		X	X	X												
26	FL35 @ 4'		C	1			X				X			2/20/24		X	X	X												
27	FL36 @ 4'		C	1			X				X			2/20/24		X	X	X												
28	FL37 @ 4'		C	1			X				X			2/20/24		X	X	X												
29	FL38 @ 2'		C	1			X				X			2/20/24		X	X	X												
30	FL39 @ 4'		C	1			X				X			2/20/24		X	X	X												
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																														
Relinquished By:			Date: 2/21/24		Received By:			Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																		
[Signature]			Time: 14:49		[Signature]			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																		
Relinquished By:			Date:		Received By:			REMARKS:																						
[Signature]			Time:		[Signature]																									
Delivered By: (Circle One)			-9.104			Sample Condition			CHECKED BY:			Please email results and copy of CoC to pm@etechenv.com.																		
Sampler - UPS - Bus - Other:			#140			Cool Intact			(Initials)																					
						<input type="checkbox"/> Yes <input type="checkbox"/> No																								
						<input type="checkbox"/> No <input type="checkbox"/> No																								

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																															
Project Manager: Lance Crenshaw				P.O. #:				<div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div>																															
Address: 2617 West Marland				Company: Mewbourne																																			
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																																			
Phone #: (575) 264-9884 Fax #:				Address:																																			
Project #: 19613 Project Owner: Mewbourne				City:																																			
Project Name: Little Valley Fed 1H				State: NM Zip:																																			
Project Location: GPS: (32.47332, -103.702472)				Phone #:																																			
Sampler Name: Aaron Rios				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																							
31	FL40 @ 4'	C	1				X					X			2/20/24		X	X	X																				
32	FL41 @ 4'	C	1				X					X			2/20/24		X	X	X																				
33	FL42 @ 2'	C	1				X					X			2/20/24		X	X	X																				
34	FL43 @ 3'	C	1				X					X			2/20/24		X	X	X																				
35	FL44 @ 2'	C	1				X					X			2/20/24		X	X	X																				
36	FL45 @ 2'	C	1				X					X			2/20/24		X	X	X																				
37	WW3	C	1				X					X			2/20/24		X	X	X																				
38	WW4	C	1				X					X			2/20/24		X	X	X																				
39	WW5	C	1				X					X			2/20/24		X	X	X																				
40	WW6	C	1				X					X			2/20/24		X	X	X																				
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Relinquished By:		Date:		Received By:		Phone Result:		Fax Result:		REMARKS:																													
		2/21/24				<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																													
Time:		14:49								Add'l Fax #:																													
Relinquished By:		Date:		Received By:																																			
		Time:																																					
Delivered By: (Circle One)						Sample Condition		CHECKED BY:																															
Sampler - UPS - Bus - Other:						Cool Intact		(Initials)																															
						<input type="checkbox"/> Yes <input type="checkbox"/> No																																	



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

March 01, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LITTLE VALLEY FED 1H

Enclosed are the results of analyses for samples received by the laboratory on 02/27/24 15:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/27/2024
 Reported: 03/01/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 98 @ 3' (H240959-01)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.27	114	2.00	2.21		
Toluene*	<0.050	0.050	02/28/2024	ND	2.28	114	2.00	2.36		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.37	119	2.00	3.97		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	7.06	118	6.00	5.12		
Total BTEx	<0.300	0.300	02/28/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	02/29/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	196	97.9	200	2.72	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	192	95.8	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/27/2024
 Reported: 03/01/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 99 @ 2' (H240959-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.27	114	2.00	2.21		
Toluene*	<0.050	0.050	02/28/2024	ND	2.28	114	2.00	2.36		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.37	119	2.00	3.97		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	7.06	118	6.00	5.12		
Total BTEX	<0.300	0.300	02/28/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/29/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	196	97.9	200	2.72	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	192	95.8	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/27/2024
 Reported: 03/01/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 100 @ 2' (H240959-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.27	114	2.00	2.21		
Toluene*	<0.050	0.050	02/28/2024	ND	2.28	114	2.00	2.36		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.37	119	2.00	3.97		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	7.06	118	6.00	5.12		
Total BTEX	<0.300	0.300	02/28/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	02/29/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	196	97.9	200	2.72	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	192	95.8	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/27/2024
 Reported: 03/01/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 101 @ 3' (H240959-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.27	114	2.00	2.21		
Toluene*	<0.050	0.050	02/28/2024	ND	2.28	114	2.00	2.36		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.37	119	2.00	3.97		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	7.06	118	6.00	5.12		
Total BTEX	<0.300	0.300	02/28/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	02/29/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	196	97.9	200	2.72	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	192	95.8	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/27/2024
 Reported: 03/01/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 102 @ 4' (H240959-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.27	114	2.00	2.21		
Toluene*	<0.050	0.050	02/28/2024	ND	2.28	114	2.00	2.36		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.37	119	2.00	3.97		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	7.06	118	6.00	5.12		
Total BTEX	<0.300	0.300	02/28/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	02/29/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	196	97.9	200	2.72	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	192	95.8	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 49.1-148

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Analytical Results For:

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

Received: 02/27/2024
 Reported: 03/01/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 103 @ 4' (H240959-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.27	114	2.00	2.21		
Toluene*	<0.050	0.050	02/28/2024	ND	2.28	114	2.00	2.36		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.37	119	2.00	3.97		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	7.06	118	6.00	5.12		
Total BTEX	<0.300	0.300	02/28/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/29/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	224	112	200	1.25	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	214	107	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 49.1-148

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Analytical Results For:

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

Received: 02/27/2024
 Reported: 03/01/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 104 @ 4' (H240959-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.27	114	2.00	2.21		
Toluene*	<0.050	0.050	02/28/2024	ND	2.28	114	2.00	2.36		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.37	119	2.00	3.97		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	7.06	118	6.00	5.12		
Total BTEX	<0.300	0.300	02/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/29/2024	ND	416	104	400	10.9		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	224	112	200	1.25	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	214	107	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 49.1-148

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Analytical Results For:

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

Received: 02/27/2024
 Reported: 03/01/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 105 @ 1' (H240959-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.27	114	2.00	2.21		
Toluene*	<0.050	0.050	02/28/2024	ND	2.28	114	2.00	2.36		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.37	119	2.00	3.97		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	7.06	118	6.00	5.12		
Total BTEX	<0.300	0.300	02/28/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	02/29/2024	ND	416	104	400	10.9		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	224	112	200	1.25	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	214	107	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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Analytical Results For:

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

Received: 02/27/2024
 Reported: 03/01/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 106 @ 1' (H240959-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.27	114	2.00	2.21		
Toluene*	<0.050	0.050	02/28/2024	ND	2.28	114	2.00	2.36		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.37	119	2.00	3.97		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	7.06	118	6.00	5.12		
Total BTEX	<0.300	0.300	02/28/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/29/2024	ND	416	104	400	10.9		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	224	112	200	1.25	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	214	107	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

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Analytical Results For:

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

Received: 02/27/2024
 Reported: 03/01/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 107 @ 2' (H240959-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.27	114	2.00	2.21		
Toluene*	<0.050	0.050	02/28/2024	ND	2.28	114	2.00	2.36		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.37	119	2.00	3.97		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	7.06	118	6.00	5.12		
Total BTEX	<0.300	0.300	02/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/29/2024	ND	416	104	400	10.9		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	224	112	200	1.25	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	214	107	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Analytical Results For:

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

Received: 02/27/2024
 Reported: 03/01/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 108 @ 4' (H240959-11)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/29/2024	ND	2.24	112	2.00	3.26	
Toluene*	<0.050	0.050	02/29/2024	ND	2.26	113	2.00	6.22	
Ethylbenzene*	<0.050	0.050	02/29/2024	ND	2.33	116	2.00	6.58	
Total Xylenes*	<0.150	0.150	02/29/2024	ND	6.89	115	6.00	6.80	
Total BTEX	<0.300	0.300	02/29/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/29/2024	ND	416	104	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	224	112	200	1.25	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	214	107	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.3 % 49.1-148

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Analytical Results For:

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

Received: 02/27/2024
 Reported: 03/01/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 109 @ 2' (H240959-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/29/2024	ND	2.24	112	2.00	3.26		
Toluene*	<0.050	0.050	02/29/2024	ND	2.26	113	2.00	6.22		
Ethylbenzene*	<0.050	0.050	02/29/2024	ND	2.33	116	2.00	6.58		
Total Xylenes*	<0.150	0.150	02/29/2024	ND	6.89	115	6.00	6.80		
Total BTEX	<0.300	0.300	02/29/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/29/2024	ND	416	104	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	224	112	200	1.25	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	214	107	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/27/2024
 Reported: 03/01/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 110 @ 1' (H240959-13)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/29/2024	ND	2.24	112	2.00	3.26		
Toluene*	<0.050	0.050	02/29/2024	ND	2.26	113	2.00	6.22		
Ethylbenzene*	<0.050	0.050	02/29/2024	ND	2.33	116	2.00	6.58		
Total Xylenes*	<0.150	0.150	02/29/2024	ND	6.89	115	6.00	6.80		
Total BTEX	<0.300	0.300	02/29/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	02/29/2024	ND	416	104	400	10.9		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	224	112	200	1.25	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	214	107	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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Analytical Results For:

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

Received: 02/27/2024
 Reported: 03/01/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 111 @ 4' (H240959-14)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/29/2024	ND	2.24	112	2.00	3.26	
Toluene*	<0.050	0.050	02/29/2024	ND	2.26	113	2.00	6.22	
Ethylbenzene*	<0.050	0.050	02/29/2024	ND	2.33	116	2.00	6.58	
Total Xylenes*	<0.150	0.150	02/29/2024	ND	6.89	115	6.00	6.80	
Total BTEX	<0.300	0.300	02/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/29/2024	ND	416	104	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	224	112	200	1.25	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	214	107	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/27/2024
 Reported: 03/01/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 112 @ 1' (H240959-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.09	105	2.00	0.381	QR-03	
Toluene*	<0.050	0.050	02/28/2024	ND	2.33	117	2.00	6.77		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.47	123	2.00	9.11		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	7.31	122	6.00	9.35		
Total BTEX	<0.300	0.300	02/28/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	02/29/2024	ND	416	104	400	10.9		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	224	112	200	1.25	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	214	107	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/27/2024
 Reported: 03/01/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 113 @ 1' (H240959-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2024	ND	2.09	105	2.00	0.381	
Toluene*	<0.050	0.050	02/28/2024	ND	2.33	117	2.00	6.77	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.47	123	2.00	9.11	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	7.31	122	6.00	9.35	
Total BTEX	<0.300	0.300	02/28/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/29/2024	ND	416	104	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	224	112	200	1.25	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	214	107	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/27/2024
 Reported: 03/01/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 114 @ 1' (H240959-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.09	105	2.00	0.381		
Toluene*	<0.050	0.050	02/28/2024	ND	2.33	117	2.00	6.77		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.47	123	2.00	9.11		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	7.31	122	6.00	9.35		
Total BTEX	<0.300	0.300	02/28/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	02/29/2024	ND	416	104	400	10.9		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	224	112	200	1.25	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	214	107	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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

Analytical Results For:

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

Received: 02/27/2024
 Reported: 03/01/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 115 @ 1' (H240959-18)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.09	105	2.00	0.381		
Toluene*	<0.050	0.050	02/28/2024	ND	2.33	117	2.00	6.77		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.47	123	2.00	9.11		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	7.31	122	6.00	9.35		
Total BTEX	<0.300	0.300	02/28/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/29/2024	ND	416	104	400	10.9		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	224	112	200	1.25	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	214	107	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Analytical Results For:

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

Received: 02/27/2024
 Reported: 03/01/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: NW 3 (H240959-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.09	105	2.00	0.381		
Toluene*	<0.050	0.050	02/28/2024	ND	2.33	117	2.00	6.77		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.47	123	2.00	9.11		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	7.31	122	6.00	9.35		
Total BTEX	<0.300	0.300	02/28/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/29/2024	ND	416	104	400	10.9		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	224	112	200	1.25	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	214	107	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/27/2024
 Reported: 03/01/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: EW 3 (H240959-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.09	105	2.00	0.381		
Toluene*	<0.050	0.050	02/28/2024	ND	2.33	117	2.00	6.77		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.47	123	2.00	9.11		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	7.31	122	6.00	9.35		
Total BTEX	<0.300	0.300	02/28/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	02/29/2024	ND	416	104	400	10.9		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	224	112	200	1.25	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	214	107	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

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Analytical Results For:

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

Received: 02/27/2024
 Reported: 03/01/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: EW 4 (H240959-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.09	105	2.00	0.381		
Toluene*	<0.050	0.050	02/28/2024	ND	2.33	117	2.00	6.77		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.47	123	2.00	9.11		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	7.31	122	6.00	9.35		
Total BTEX	<0.300	0.300	02/28/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/29/2024	ND	416	104	400	10.9		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	224	112	200	1.25	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	214	107	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/27/2024
 Reported: 03/01/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: EW 5 (H240959-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.09	105	2.00	0.381		
Toluene*	<0.050	0.050	02/28/2024	ND	2.33	117	2.00	6.77		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.47	123	2.00	9.11		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	7.31	122	6.00	9.35		
Total BTEx	<0.300	0.300	02/28/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/29/2024	ND	416	104	400	10.9		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	224	112	200	1.25	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	214	107	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/27/2024
 Reported: 03/01/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: EW 6 (H240959-23)

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	02/28/2024	ND	2.09	105	2.00	0.381	
Toluene*	<0.050	0.050	02/28/2024	ND	2.33	117	2.00	6.77	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.47	123	2.00	9.11	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	7.31	122	6.00	9.35	
Total BTEX	<0.300	0.300	02/28/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/29/2024	ND	416	104	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	224	112	200	1.25	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	214	107	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 26 of 28

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 West Marland				Company: Mewbourne																							
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																							
Phone #: (575) 264-9884 Fax #:				Address:																							
Project #: 19613 Project Owner: Mewbourne				City:																							
Project Name: Little Valley Fed 1H				State: NM Zip:																							
Project Location: GPS: (32.47332, -103.702472)				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	OTHER:	DATE	TIME													
1240959																											
1	FL98 @ 3'	C	1			X				X			2/26/24		X	X	X										
2	FL99 @ 2'	C	1			X				X			2/26/24		X	X	X										
3	FL100 @ 2'	C	1			X				X			2/26/24		X	X	X										
4	FL101 @ 3'	C	1			X				X			2/26/24		X	X	X										
5	FL102 @ 4'	C	1			X				X			2/26/24		X	X	X										
6	FL103 @ 4'	C	1			X				X			2/26/24		X	X	X										
7	FL104 @ 4'	C	1			X				X			2/26/24		X	X	X										
8	FL105 @ 1'	C	1			X				X			2/26/24		X	X	X										
9	FL106 @ 1'	C	1			X				X			2/26/24		X	X	X										
10	FL107 @ 2'	C	1			X				X			2/26/24		X	X	X										
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Relinquished By:		Date: 2/27/24		Received By:		Date: 2/27/24		Time: 15:03		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:		REMARKS: Please email results and copy of CoC to pm@etechenv.com.									
Relinquished By:		Date:		Received By:		Date:		Time:																			
Delivered By: (Circle One)				-9.9				Sample Condition				CHECKED BY:															
Sampler - UPS - Bus - Other:				#1446				Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>				(Initials)															
								<input type="checkbox"/> Yes <input type="checkbox"/> No																			

FORM-006
Revision 1.0

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

February 29, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LITTLE VALLEY FED 1H

Enclosed are the results of analyses for samples received by the laboratory on 02/26/24 15:01.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 46 @ 4' (H240930-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2024	ND	2.27	113	2.00	2.18	
Toluene*	<0.050	0.050	02/28/2024	ND	2.25	112	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.21	111	2.00	1.84	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.67	111	6.00	1.39	
Total BTX	<0.300	0.300	02/28/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	02/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	188	93.8	200	0.694	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	186	93.2	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 47 @ 4' (H240930-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.27	113	2.00	2.18		
Toluene*	<0.050	0.050	02/28/2024	ND	2.25	112	2.00	1.79		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.21	111	2.00	1.84		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.67	111	6.00	1.39		
Total BTEX	<0.300	0.300	02/28/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	02/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	188	93.8	200	0.694	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	186	93.2	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 48 @ 4' (H240930-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.27	113	2.00	2.18		
Toluene*	<0.050	0.050	02/28/2024	ND	2.25	112	2.00	1.79		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.21	111	2.00	1.84		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.67	111	6.00	1.39		
Total BTEX	<0.300	0.300	02/28/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	02/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	188	93.8	200	0.694	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	186	93.2	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 49 @ 4' (H240930-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2024	ND	2.27	113	2.00	2.18	
Toluene*	<0.050	0.050	02/28/2024	ND	2.25	112	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.21	111	2.00	1.84	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.67	111	6.00	1.39	
Total BTEX	<0.300	0.300	02/28/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4560	16.0	02/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	188	93.8	200	0.694	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	186	93.2	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 50 @ 4' (H240930-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2024	ND	2.27	113	2.00	2.18	
Toluene*	<0.050	0.050	02/28/2024	ND	2.25	112	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.21	111	2.00	1.84	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.67	111	6.00	1.39	
Total BTEX	<0.300	0.300	02/28/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	02/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	188	93.8	200	0.694	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	186	93.2	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 51 @ 4' (H240930-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.27	113	2.00	2.18		
Toluene*	<0.050	0.050	02/28/2024	ND	2.25	112	2.00	1.79		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.21	111	2.00	1.84		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.67	111	6.00	1.39		
Total BTEX	<0.300	0.300	02/28/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3760	16.0	02/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	188	93.8	200	0.694	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	186	93.2	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.9 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 52 @ 4' (H240930-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2024	ND	2.12	106	2.00	4.17	
Toluene*	<0.050	0.050	02/28/2024	ND	2.14	107	2.00	3.50	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.13	107	2.00	3.80	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.43	107	6.00	3.60	
Total BTEX	<0.300	0.300	02/28/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	02/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	188	93.8	200	0.694	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	186	93.2	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 53 @ 4' (H240930-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2024	ND	2.12	106	2.00	4.17	
Toluene*	<0.050	0.050	02/28/2024	ND	2.14	107	2.00	3.50	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.13	107	2.00	3.80	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.43	107	6.00	3.60	
Total BTEX	<0.300	0.300	02/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2640	16.0	02/28/2024	ND	432	108	400	3.64	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	189	94.6	200	1.87	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	202	101	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 54 @ 4' (H240930-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.12	106	2.00	4.17		
Toluene*	<0.050	0.050	02/28/2024	ND	2.14	107	2.00	3.50		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.13	107	2.00	3.80		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.43	107	6.00	3.60		
Total BTEX	<0.300	0.300	02/28/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	02/28/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	189	94.6	200	1.87	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	202	101	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 55 @ 4' (H240930-10)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2024	ND	2.12	106	2.00	4.17	
Toluene*	<0.050	0.050	02/28/2024	ND	2.14	107	2.00	3.50	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.13	107	2.00	3.80	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.43	107	6.00	3.60	
Total BTEx	<0.300	0.300	02/28/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	02/28/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	189	94.6	200	1.87	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	202	101	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 79.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
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Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 56 @ 4' (H240930-11)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2024	ND	2.12	106	2.00	4.17	
Toluene*	<0.050	0.050	02/28/2024	ND	2.14	107	2.00	3.50	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.13	107	2.00	3.80	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.43	107	6.00	3.60	
Total BTEX	<0.300	0.300	02/28/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	02/28/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	189	94.6	200	1.87	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	202	101	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 57 @ 2' (H240930-12)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2024	ND	2.12	106	2.00	4.17	
Toluene*	<0.050	0.050	02/28/2024	ND	2.14	107	2.00	3.50	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.13	107	2.00	3.80	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.43	107	6.00	3.60	
Total BTEX	<0.300	0.300	02/28/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/28/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	189	94.6	200	1.87	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	202	101	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 58 @ 2' (H240930-13)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2024	ND	2.12	106	2.00	4.17	
Toluene*	<0.050	0.050	02/28/2024	ND	2.14	107	2.00	3.50	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.13	107	2.00	3.80	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.43	107	6.00	3.60	
Total BTX	<0.300	0.300	02/28/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/28/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	189	94.6	200	1.87	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	202	101	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 59 @ 1' (H240930-14)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2024	ND	2.12	106	2.00	4.17	
Toluene*	<0.050	0.050	02/28/2024	ND	2.14	107	2.00	3.50	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.13	107	2.00	3.80	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.43	107	6.00	3.60	
Total BTEX	<0.300	0.300	02/28/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/28/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	189	94.6	200	1.87	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	202	101	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 73.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 60 @ 1' (H240930-15)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2024	ND	2.12	106	2.00	4.17	
Toluene*	<0.050	0.050	02/28/2024	ND	2.14	107	2.00	3.50	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.13	107	2.00	3.80	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.43	107	6.00	3.60	
Total BTEX	<0.300	0.300	02/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/28/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	189	94.6	200	1.87	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	202	101	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 74.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 61 @ 1' (H240930-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2024	ND	2.12	106	2.00	4.17	
Toluene*	<0.050	0.050	02/28/2024	ND	2.14	107	2.00	3.50	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.13	107	2.00	3.80	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.43	107	6.00	3.60	
Total BTEX	<0.300	0.300	02/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/28/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	189	94.6	200	1.87	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	202	101	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 62 @ 1' (H240930-17)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2024	ND	2.12	106	2.00	4.17	
Toluene*	<0.050	0.050	02/28/2024	ND	2.14	107	2.00	3.50	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.13	107	2.00	3.80	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.43	107	6.00	3.60	
Total BTEX	<0.300	0.300	02/28/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/28/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	189	94.6	200	1.87	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	202	101	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 63 @ 1' (H240930-18)

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	02/28/2024	ND	2.12	106	2.00	4.17	
Toluene*	<0.050	0.050	02/28/2024	ND	2.14	107	2.00	3.50	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.13	107	2.00	3.80	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.43	107	6.00	3.60	
Total BTX	<0.300	0.300	02/28/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/28/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	189	94.6	200	1.87	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	202	101	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 64 @ 1' (H240930-19)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2024	ND	2.12	106	2.00	4.17	
Toluene*	<0.050	0.050	02/28/2024	ND	2.14	107	2.00	3.50	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.13	107	2.00	3.80	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.43	107	6.00	3.60	
Total BTEX	<0.300	0.300	02/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/28/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	189	94.6	200	1.87	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	202	101	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 72.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 65 @ 1' (H240930-20)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2024	ND	2.12	106	2.00	4.17	
Toluene*	<0.050	0.050	02/28/2024	ND	2.14	107	2.00	3.50	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.13	107	2.00	3.80	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.43	107	6.00	3.60	
Total BTEX	<0.300	0.300	02/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/28/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	189	94.6	200	1.87	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	202	101	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 66 @ 1' (H240930-21)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2024	ND	2.12	106	2.00	4.17	
Toluene*	<0.050	0.050	02/28/2024	ND	2.14	107	2.00	3.50	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.13	107	2.00	3.80	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.43	107	6.00	3.60	
Total BTEX	<0.300	0.300	02/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/28/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	189	94.6	200	1.87	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	202	101	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 67 @ 4' (H240930-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.12	106	2.00	4.17		
Toluene*	<0.050	0.050	02/28/2024	ND	2.14	107	2.00	3.50		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.13	107	2.00	3.80		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.43	107	6.00	3.60		
Total BTEX	<0.300	0.300	02/28/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	02/28/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	189	94.6	200	1.87	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	202	101	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 74.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 68 @ 2' (H240930-23)

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	02/28/2024	ND	2.12	106	2.00	4.17	
Toluene*	<0.050	0.050	02/28/2024	ND	2.14	107	2.00	3.50	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.13	107	2.00	3.80	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.43	107	6.00	3.60	
Total BTEX	<0.300	0.300	02/28/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/28/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	189	94.6	200	1.87	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	202	101	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 71.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 69 @ 2' (H240930-24)

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	02/28/2024	ND	2.12	106	2.00	4.17		
Toluene*	<0.050	0.050	02/28/2024	ND	2.14	107	2.00	3.50		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.13	107	2.00	3.80		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.43	107	6.00	3.60		
Total BTEX	<0.300	0.300	02/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	02/28/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	189	94.6	200	1.87	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	202	101	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 70 @ 3' (H240930-25)

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	02/28/2024	ND	2.12	106	2.00	4.17	
Toluene*	<0.050	0.050	02/28/2024	ND	2.14	107	2.00	3.50	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.13	107	2.00	3.80	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.43	107	6.00	3.60	
Total BTEX	<0.300	0.300	02/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/28/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	189	94.6	200	1.87	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	202	101	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 71 @ 2' (H240930-26)

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	02/28/2024	ND	2.12	106	2.00	4.17		
Toluene*	<0.050	0.050	02/28/2024	ND	2.14	107	2.00	3.50		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.13	107	2.00	3.80		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.43	107	6.00	3.60		
Total BTEX	<0.300	0.300	02/28/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/28/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	189	94.6	200	1.87	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	202	101	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 72 @ 2' (H240930-27)

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	02/28/2024	ND	2.31	115	2.00	1.76		
Toluene*	<0.050	0.050	02/28/2024	ND	2.26	113	2.00	1.67		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.22	111	2.00	1.09		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.42	107	6.00	1.23		
Total BTEX	<0.300	0.300	02/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/28/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	189	94.6	200	1.87	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	202	101	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 73 @ 2' (H240930-28)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.31	115	2.00	1.76		
Toluene*	<0.050	0.050	02/28/2024	ND	2.26	113	2.00	1.67		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.22	111	2.00	1.09		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.42	107	6.00	1.23		
Total BTEX	<0.300	0.300	02/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	02/28/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	192	95.8	200	3.28	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	192	96.0	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 74 @ 2' (H240930-29)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.31	115	2.00	1.76		
Toluene*	<0.050	0.050	02/28/2024	ND	2.26	113	2.00	1.67		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.22	111	2.00	1.09		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.42	107	6.00	1.23		
Total BTEX	<0.300	0.300	02/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/28/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	192	95.8	200	3.28	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	192	96.0	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.0 % 49.1-148

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 75 @ 2' (H240930-30)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2024	ND	2.31	115	2.00	1.76	
Toluene*	<0.050	0.050	02/28/2024	ND	2.26	113	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.22	111	2.00	1.09	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.42	107	6.00	1.23	
Total BTEX	<0.300	0.300	02/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/28/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	192	95.8	200	3.28	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	192	96.0	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 76 @ 2' (H240930-31)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.31	115	2.00	1.76		
Toluene*	<0.050	0.050	02/28/2024	ND	2.26	113	2.00	1.67		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.22	111	2.00	1.09		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.42	107	6.00	1.23		
Total BTEX	<0.300	0.300	02/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	02/28/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	192	95.8	200	3.28	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	192	96.0	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 49.1-148

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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 77 @ 3' (H240930-32)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.31	115	2.00	1.76		
Toluene*	<0.050	0.050	02/28/2024	ND	2.26	113	2.00	1.67		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.22	111	2.00	1.09		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.42	107	6.00	1.23		
Total BTEX	<0.300	0.300	02/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/28/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	192	95.8	200	3.28	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	192	96.0	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 78 @ 1' (H240930-33)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.31	115	2.00	1.76		
Toluene*	<0.050	0.050	02/28/2024	ND	2.26	113	2.00	1.67		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.22	111	2.00	1.09		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.42	107	6.00	1.23		
Total BTEX	<0.300	0.300	02/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	02/28/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	192	95.8	200	3.28	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	192	96.0	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 49.1-148

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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 79 @ 3' (H240930-34)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.31	115	2.00	1.76		
Toluene*	<0.050	0.050	02/28/2024	ND	2.26	113	2.00	1.67		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.22	111	2.00	1.09		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.42	107	6.00	1.23		
Total BTEX	<0.300	0.300	02/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/28/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	192	95.8	200	3.28	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	192	96.0	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 80 @ 2' (H240930-35)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.31	115	2.00	1.76		
Toluene*	<0.050	0.050	02/28/2024	ND	2.26	113	2.00	1.67		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.22	111	2.00	1.09		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.42	107	6.00	1.23		
Total BTEX	<0.300	0.300	02/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/28/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	192	95.8	200	3.28	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	192	96.0	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 49.1-148

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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 81 @ 2' (H240930-36)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.31	115	2.00	1.76		
Toluene*	<0.050	0.050	02/28/2024	ND	2.26	113	2.00	1.67		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.22	111	2.00	1.09		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.42	107	6.00	1.23		
Total BTEX	<0.300	0.300	02/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/28/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	192	95.8	200	3.28	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	192	96.0	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 82 @ 1' (H240930-37)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.31	115	2.00	1.76		
Toluene*	<0.050	0.050	02/28/2024	ND	2.26	113	2.00	1.67		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.22	111	2.00	1.09		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.42	107	6.00	1.23		
Total BTEX	<0.300	0.300	02/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/28/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	192	95.8	200	3.28	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	192	96.0	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 49.1-148

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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 83 @ 2' (H240930-38)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.31	115	2.00	1.76		
Toluene*	<0.050	0.050	02/28/2024	ND	2.26	113	2.00	1.67		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.22	111	2.00	1.09		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.42	107	6.00	1.23		
Total BTEx	<0.300	0.300	02/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/28/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	192	95.8	200	3.28	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	192	96.0	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 84 @ 3' (H240930-39)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2024	ND	2.31	115	2.00	1.76	
Toluene*	<0.050	0.050	02/28/2024	ND	2.26	113	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.22	111	2.00	1.09	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.42	107	6.00	1.23	
Total BTEX	<0.300	0.300	02/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/28/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	192	95.8	200	3.28	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	192	96.0	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 85 @ 4' (H240930-40)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2024	ND	2.31	115	2.00	1.76	
Toluene*	<0.050	0.050	02/28/2024	ND	2.26	113	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.22	111	2.00	1.09	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.42	107	6.00	1.23	
Total BTEX	<0.300	0.300	02/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/28/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	192	95.8	200	3.28	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	192	96.0	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 49.1-148

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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 86 @ 1' (H240930-41)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.31	115	2.00	1.76		
Toluene*	<0.050	0.050	02/28/2024	ND	2.26	113	2.00	1.67		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.22	111	2.00	1.09		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.42	107	6.00	1.23		
Total BTEX	<0.300	0.300	02/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	02/28/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	192	95.8	200	3.28	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	192	96.0	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 87 @ 1' (H240930-42)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2024	ND	2.31	115	2.00	1.76	
Toluene*	<0.050	0.050	02/28/2024	ND	2.26	113	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.22	111	2.00	1.09	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.42	107	6.00	1.23	
Total BTEX	<0.300	0.300	02/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/28/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	192	95.8	200	3.28	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	192	96.0	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 49.1-148

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 88 @ 1' (H240930-43)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.31	115	2.00	1.76		
Toluene*	<0.050	0.050	02/28/2024	ND	2.26	113	2.00	1.67		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.22	111	2.00	1.09		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.42	107	6.00	1.23		
Total BTEX	<0.300	0.300	02/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	02/28/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	192	95.8	200	3.28	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	192	96.0	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 89 @ 2' (H240930-44)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.31	115	2.00	1.76		
Toluene*	<0.050	0.050	02/28/2024	ND	2.26	113	2.00	1.67		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.22	111	2.00	1.09		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.42	107	6.00	1.23		
Total BTEX	<0.300	0.300	02/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/28/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	192	95.8	200	3.28	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	192	96.0	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 49.1-148

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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 90 @ 4' (H240930-45)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.31	115	2.00	1.76		
Toluene*	<0.050	0.050	02/28/2024	ND	2.26	113	2.00	1.67		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.22	111	2.00	1.09		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.42	107	6.00	1.23		
Total BTEX	<0.300	0.300	02/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	02/28/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	192	95.8	200	3.28	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	192	96.0	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 91 @ 3' (H240930-46)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2024	ND	2.31	115	2.00	1.76	
Toluene*	<0.050	0.050	02/28/2024	ND	2.26	113	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.22	111	2.00	1.09	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.42	107	6.00	1.23	
Total BTEX	<0.300	0.300	02/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/28/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	192	95.8	200	3.28	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	192	96.0	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 92 @ 2' (H240930-47)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2024	ND	2.07	103	2.00	8.99	
Toluene*	<0.050	0.050	02/27/2024	ND	2.06	103	2.00	8.91	
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.03	102	2.00	9.09	
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.20	103	6.00	8.44	
Total BTEX	<0.300	0.300	02/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/28/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	192	95.8	200	3.28	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	192	96.0	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 93 @ 2' (H240930-48)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2024	ND	2.07	103	2.00	8.99	
Toluene*	<0.050	0.050	02/27/2024	ND	2.06	103	2.00	8.91	
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.03	102	2.00	9.09	
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.20	103	6.00	8.44	
Total BTEX	<0.300	0.300	02/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/28/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	222	111	200	3.38	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	215	107	200	0.139	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 94 @ 3' (H240930-49)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2024	ND	2.07	103	2.00	8.99	
Toluene*	<0.050	0.050	02/27/2024	ND	2.06	103	2.00	8.91	
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.03	102	2.00	9.09	
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.20	103	6.00	8.44	
Total BTEx	<0.300	0.300	02/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/28/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	222	111	200	3.38	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	215	107	200	0.139	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 95 @ 3' (H240930-50)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2024	ND	2.07	103	2.00	8.99	
Toluene*	<0.050	0.050	02/27/2024	ND	2.06	103	2.00	8.91	
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.03	102	2.00	9.09	
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.20	103	6.00	8.44	
Total BTEX	<0.300	0.300	02/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/28/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	222	111	200	3.38	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	215	107	200	0.139	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 96 @ 3' (H240930-51)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2024	ND	2.07	103	2.00	8.99		
Toluene*	<0.050	0.050	02/27/2024	ND	2.06	103	2.00	8.91		
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.03	102	2.00	9.09		
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.20	103	6.00	8.44		
Total BTEX	<0.300	0.300	02/27/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/29/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	222	111	200	3.38	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	215	107	200	0.139	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 97 @ 3' (H240930-52)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2024	ND	2.07	103	2.00	8.99	
Toluene*	<0.050	0.050	02/27/2024	ND	2.06	103	2.00	8.91	
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.03	102	2.00	9.09	
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.20	103	6.00	8.44	
Total BTEX	<0.300	0.300	02/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/29/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	222	111	200	3.38	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	215	107	200	0.139	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Analytical Results For:

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

Received: 02/26/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 2 (H240930-53)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2024	ND	2.07	103	2.00	8.99	
Toluene*	<0.050	0.050	02/27/2024	ND	2.06	103	2.00	8.91	
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.03	102	2.00	9.09	
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.20	103	6.00	8.44	
Total BTEX	<0.300	0.300	02/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/29/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	222	111	200	3.38	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	215	107	200	0.139	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

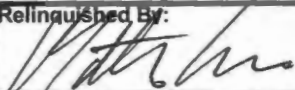


Caley D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																							
Project Manager: Lance Crenshaw				P.O. #:				<div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div>																																							
Address: 2617 West Marland				Company: Mewbourne																																											
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																																											
Phone #: (575) 264-9884 Fax: #:				Address:																																											
Project #: 19613 Project Owner: Mewbourne				City:																																											
Project Name: Little Valley Fed 1H				State: NM Zip:																																											
Project Location: GPS: (32.47332, -103.702472)				Phone #:																																											
Sampler Name: Aaron Rios				Fax #:																																											
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)COMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE		ICE / COOL		OTHER:		DATE		TIME																			
H240930				C		1						X								X				2/26/24						X		X		X													
1		FL46 @ 4'		C		1						X								X				2/26/24						X		X		X													
2		FL47 @ 4'		C		1						X								X				2/26/24						X		X		X													
3		FL48 @ 4'		C		1						X								X				2/26/24						X		X		X													
4		FL49 @ 4'		C		1						X								X				2/26/24						X		X		X													
5		FL50 @ 4'		C		1						X								X				2/26/24						X		X		X													
6		FL51 @ 4'		C		1						X								X				2/26/24						X		X		X													
7		FL52 @ 4'		C		1						X								X				2/26/24						X		X		X													
8		FL53 @ 4'		C		1						X								X				2/26/24						X		X		X													
9		FL54 @ 4'		C		1						X								X				2/26/24						X		X		X													
10		FL55 @ 4'		C		1						X								X				2/26/24						X		X		X													
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																															
Relinquished By: 				Date: 2-26-24 Time: 1501		Received By: 				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:				Date:		Received By:				Please email results and copy of CoC to pm@etechenv.com.																																					
Delivered By: (Circle One)				Time:		Sample Condition				CHECKED BY:																																					
Sampler - UPS - Bus - Other:				-10-00		Cool Intact				(Initials)																																					
				#140		<input type="checkbox"/> Yes <input type="checkbox"/> No																																									

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.						BILL TO								ANALYSIS REQUEST									
Project Manager: Lance Crenshaw						P.O. #:						Chloride TPH (8015M) BTEX (8021B)											
Address: 2617 West Marland						Company Mewbourne																	
City: Hobbs State: NM Zip: 88240						Attn: Connor Walker																	
Phone #: (575) 264-9884 Fax #:						Address:																	
Project #: 19613 Project Owner: Mewbourne						City:																	
Project Name: Little Valley Fed 1H						State: NM Zip:																	
Project Location: GPS: (32.47332, -103.702472)						Phone #:																	
Sampler Name: Aaron Rios						Fax #:																	
FOR LAB USE ONLY				(G/RAB OR (C)OMP. # CONTAINERS		MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :		PRESERV. ACID/BASE: ICE / COOL OTHER :		SAMPLING DATE TIME													
Lab I.D.		Sample I.D.																					
H240930																							
11 FL56 @ 4'		C 1				X		X		2/26/24		X	X	X									
12 FL57 @ 2'		C 1				X		X		2/26/24		X	X	X									
13 FL58 @ 2'		C 1				X		X		2/26/24		X	X	X									
14 FL59 @ 1'		C 1				X		X		2/26/24		X	X	X									
15 FL60 @ 1'		C 1				X		X		2/26/24		X	X	X									
16 FL61 @ 1'		C 1				X		X		2/26/24		X	X	X									
17 FL62 @ 1'		C 1				X		X		2/26/24		X	X	X									
18 FL63 @ 1'		C 1				X		X		2/26/24		X	X	X									
19 FL64 @ 1'		C 1				X		X		2/26/24		X	X	X									
20 FL65 @ 1'		C 1				X		X		2/26/24		X	X	X									
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Relinquished By:		Date: 2-26-24		Received By:		Time: 1501		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:		REMARKS:											
Relinquished By:		Date:		Received By:		Time:		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:													
Delivered By: (Circle One)		Date:		Received By:		Time:		CHECKED BY: (Initials)															
Sampler - UPS - Bus - Other: -10.0 = #140		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		8/2		Please email results and copy of CoC to pm@etechenv.com.																	



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 58 of 61

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>											
Address: 2617 West Marland				Company: Mewbourne															
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker															
Phone #: (575) 264-9884 Fax #:				Address:															
Project #: 19613 Project Owner: Mewbourne				City:															
Project Name: Little Valley Fed 1H				State: NM Zip:															
Project Location: GPS: (32.47332, -103.702472)				Phone #:															
Sampler Name: Aaron Rios				Fax #:															

FOR LAB USE ONLY		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)									
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:														
H240 930																										
21	FL66 @ 1'	C	1			X				X			2/26/24		X	X	X									
22	FL67 @ 4'	C	1			X				X			2/26/24		X	X	X									
23	FL68 @ 2'	C	1			X				X			2/26/24		X	X	X									
24	FL69 @ 2'	C	1			X				X			2/26/24		X	X	X									
25	FL70 @ 3'	C	1			X				X			2/26/24		X	X	X									
26	FL71 @ 2'	C	1			X				X			2/26/24		X	X	X									
27	FL72 @ 2'	C	1			X				X			2/26/24		X	X	X									
28	FL73 @ 2'	C	1			X				X			2/26/24		X	X	X									
29	FL74 @ 2'	C	1			X				X			2/26/24		X	X	X									
30	FL75 @ 2'	C	1			X				X			2/26/24		X	X	X									

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Relinquished By: Date: 2-26-24 Time: 1501	Received By: Date: Time:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS: Please email results and copy of CoC to pm@etechenv.com.
Relinquished By: Date: Time:	Received By: Date: Time:	

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	-10.0: #140	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: (Initials) SK
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.						BILL TO								ANALYSIS REQUEST										
Project Manager: Lance Crenshaw						P.O. #:						<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>												
Address: 2617 West Marland						Company: Mewbourne																		
City: Hobbs State: NM Zip: 88240						Attn: Connor Walker																		
Phone #: (575) 264-9884 Fax #:						Address:																		
Project #: 19613 Project Owner: Mewbourne						City:																		
Project Name: Little Valley Fed 1H						State: NM Zip:																		
Project Location: GPS: (32.47332, -103.702472)						Phone #:																		
Sampler Name: Aaron Rios						Fax #:																		
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING														
Lab I.D.	Sample I.D.	(G/RAB OR (C)COMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE	ICE / COOL	OTHER :	DATE	TIME										
H240930																								
31	FL76 @ 2'	C	1		X					X			2/26/24		X	X	X							
32	FL77 @ 3'	C	1		X					X			2/26/24		X	X	X							
33	FL78 @ 1'	C	1		X					X			2/26/24		X	X	X							
34	FL79 @ 3'	C	1		X					X			2/26/24		X	X	X							
35	FL80 @ 2'	C	1		X					X			2/26/24		X	X	X							
36	FL81 @ 2'	C	1		X					X			2/26/24		X	X	X							
37	FL82 @ 1'	C	1		X					X			2/26/24		X	X	X							
38	FL83 @ 2'	C	1		X					X			2/26/24		X	X	X							
39	FL84 @ 3'	C	1		X					X			2/26/24		X	X	X							
40	FL85 @ 4'	C	1		X					X			2/26/24		X	X	X							
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Relinquished By:		Date:		Received By:		Phone Result:		<input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:														
		2-26-24				Fax Result:		<input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:														
		Time: 1501				REMARKS:																		
Relinquished By:		Date:		Received By:																				
Delivered By: (Circle One)		Time:				Sample Condition		CHECKED BY:																
Sampler - UPS - Bus - Other:						Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		(Initials) SK																
Please email results and copy of CoC to pm@etechenv.com.																								



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>											
Address: 2617 West Marland				Company: Mewbourne															
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker															
Phone #: (575) 264-9884 Fax #:				Address:															
Project #: 19613 Project Owner: Mewbourne				City:															
Project Name: Little Valley Fed 1H				State: NM Zip:															
Project Location: GPS: (32.47332, -103.702472)				Phone #:															
Sampler Name: Aaron Rios				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			
4240930				C 1				X		X		2/26/24				X		X	
41		FL86 @ 1'		C 1				X		X		2/26/24				X		X	
42		FL87 @ 1'		C 1				X		X		2/26/24				X		X	
43		FL88 @ 1'		C 1				X		X		2/26/24				X		X	
44		FL89 @ 2'		C 1				X		X		2/26/24				X		X	
45		FL90 @ 4'		C 1				X		X		2/26/24				X		X	
46		FL91 @ 3'		C 1				X		X		2/26/24				X		X	
47		FL92 @ 2'		C 1				X		X		2/26/24				X		X	
48		FL93 @ 2'		C 1				X		X		2/26/24				X		X	
49		FL94 @ 3'		C 1				X		X		2/26/24				X		X	
50		FL95 @ 3'		C 1				X		X		2/26/24				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: 2-26-24				Received By: 8 Rodriguez				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:			
				Time: 1501								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:			
Relinquished By:				Date:				Received By:				REMARKS:							
				Time:															
Delivered By: (Circle One)				Sample Condition				CHECKED BY:				Please email results and copy of CoC to pm@etechenv.com.							
Sampler - UPS - Bus - Other: -10-DE #140				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				(Initials): 8K											



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 61 of 61

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

February 29, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LITTLE VALLEY FED 1H

Enclosed are the results of analyses for samples received by the laboratory on 02/28/24 14:36.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/28/2024
 Reported: 02/29/2024
 Project Name: LITTLE VALLEY FED 1H
 Project Number: 19613 MEWBOURNE
 Project Location: GPS : (32.47332,-103.702472)

Sampling Date: 02/28/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 15 @ 4' (H240979-01)

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/28/2024	ND	2.37	119	2.00	4.38	
Toluene*	<0.025	0.025	02/28/2024	ND	2.47	123	2.00	6.13	
Ethylbenzene*	<0.025	0.025	02/28/2024	ND	2.45	122	2.00	5.35	
Total Xylenes*	<0.075	0.075	02/28/2024	ND	7.63	127	6.00	5.59	
Total BTEX	<0.150	0.150	02/28/2024	ND					

Surrogate: Dibromofluoromethane 94.6 % 86.7-111

Surrogate: Toluene-d8 101 % 89.3-110

Surrogate: 4-Bromofluorobenzene 99.4 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1490	16.0	02/29/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2024	ND	209	104	200	3.45	
DRO >C10-C28*	<10.0	10.0	02/28/2024	ND	208	104	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	02/28/2024	ND					

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.8 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

Appendix E

Regulatory Correspondence

From: OCDOnline@state.nm.us
To: [Connor Walker](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 314442
Date: Wednesday, February 14, 2024 3:27:55 PM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2401946483.

The sampling event is expected to take place:

When: 02/20/2024 @ 08:00

Where: M-17-21S-32E 0 FNL 0 FEL (32.47324,-103.70204)

Additional Information: Sample tech: Dominic Casarez

Phone: 432-813-1036, dominic@etechenv.com

Additional Instructions: From the intersection of US-180 and Co Rd 29 (GPS: 32.548806, -103.745576), head S on Co Rd 29 for 5.80 mi, then E for 1.06 mi, then S for 0.09 mi, then E for 0.19 mi, then N for 0.13 mi, then W for 0.03 mi to arrive at the Little Valley Fed 1H release area (GPS: 32.473324, -103.702496)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Connor Walker](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 314446
Date: Wednesday, February 14, 2024 3:30:11 PM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2401946483.

The sampling event is expected to take place:

When: 02/21/2024 @ 08:00

Where: M-17-21S-32E 0 FNL 0 FEL (32.47324,-103.70204)

Additional Information: Sample tech: Dominic Casarez

Phone: 432-813-1036, dominic@etechenv.com

Additional Instructions: From the intersection of US-180 and Co Rd 29 (GPS: 32.548806, -103.745576), head S on Co Rd 29 for 5.80 mi, then E for 1.06 mi, then S for 0.09 mi, then E for 0.19 mi, then N for 0.13 mi, then W for 0.03 mi to arrive at the Little Valley Fed 1H release area (GPS: 32.473324, -103.702496)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Connor Walker](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 314448
Date: Wednesday, February 14, 2024 3:33:13 PM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2401946483.

The sampling event is expected to take place:

When: 02/22/2024 @ 08:00

Where: M-17-21S-32E 0 FNL 0 FEL (32.47324,-103.70204)

Additional Information: Sample tech: Dominic Casarez

Phone: 432-813-1036, dominic@etechenv.com

Additional Instructions: From the intersection of US-180 and Co Rd 29 (GPS: 32.548806, -103.745576), head S on Co Rd 29 for 5.80 mi, then E for 1.06 mi, then S for 0.09 mi, then E for 0.19 mi, then N for 0.13 mi, then W for 0.03 mi to arrive at the Little Valley Fed 1H release area (GPS: 32.473324, -103.702496)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Connor Walker](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 317974
Date: Tuesday, February 27, 2024 10:18:01 AM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2401946483.

The sampling event is expected to take place:

When: 03/01/2024 @ 09:00

Where: M-17-21S-32E 0 FNL 0 FEL (32.47324,-103.70204)

Additional Information: Sample tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechenv.com

Additional Instructions: From the intersection of US-180 and Co Rd 29 (GPS: 32.548806, -103.745576), head S on Co Rd 29 for 5.80 mi, then E for 1.06 mi, then S for 0.09 mi, then E for 0.19 mi, then N for 0.13 mi, then W for 0.03 mi to arrive at the Little Valley Fed 1H release area (GPS: 32.473324, -103.702496)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Connor Walker](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 318046
Date: Tuesday, February 27, 2024 10:29:05 AM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2401946483.

The sampling event is expected to take place:

When: 03/02/2024 @ 09:00

Where: M-17-21S-32E 0 FNL 0 FEL (32.47324,-103.70204)

Additional Information: Sample tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechnv.com

Additional Instructions: From the intersection of US-180 and Co Rd 29 (GPS: 32.548806, -103.745576), head S on Co Rd 29 for 5.80 mi, then E for 1.06 mi, then S for 0.09 mi, then E for 0.19 mi, then N for 0.13 mi, then W for 0.03 mi to arrive at the Little Valley Fed 1H release area (GPS: 32.473324, -103.702496)

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- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Connor Walker](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 318059
Date: Tuesday, February 27, 2024 10:34:25 AM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2401946483.

The sampling event is expected to take place:

When: 03/03/2024 @ 09:00

Where: M-17-21S-32E 0 FNL 0 FEL (32.47324,-103.70204)

Additional Information: Sample tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechenv.com

Additional Instructions: From the intersection of US-180 and Co Rd 29 (GPS: 32.548806, -103.745576), head S on Co Rd 29 for 5.80 mi, then E for 1.06 mi, then S for 0.09 mi, then E for 0.19 mi, then N for 0.13 mi, then W for 0.03 mi to arrive at the Little Valley Fed 1H release area (GPS: 32.473324, -103.702496)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Connor Walker](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 318063
Date: Tuesday, February 27, 2024 10:35:29 AM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2401946483.

The sampling event is expected to take place:

When: 03/04/2024 @ 09:00

Where: M-17-21S-32E 0 FNL 0 FEL (32.47324,-103.70204)

Additional Information: Sample tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechnv.com

Additional Instructions: From the intersection of US-180 and Co Rd 29 (GPS: 32.548806, -103.745576), head S on Co Rd 29 for 5.80 mi, then E for 1.06 mi, then S for 0.09 mi, then E for 0.19 mi, then N for 0.13 mi, then W for 0.03 mi to arrive at the Little Valley Fed 1H release area (GPS: 32.473324, -103.702496)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Connor Walker](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 318069
Date: Tuesday, February 27, 2024 10:37:25 AM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2401946483.

The sampling event is expected to take place:

When: 03/05/2024 @ 09:00

Where: M-17-21S-32E 0 FNL 0 FEL (32.47324,-103.70204)

Additional Information: Sample tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechnv.com

Additional Instructions: From the intersection of US-180 and Co Rd 29 (GPS: 32.548806, -103.745576), head S on Co Rd 29 for 5.80 mi, then E for 1.06 mi, then S for 0.09 mi, then E for 0.19 mi, then N for 0.13 mi, then W for 0.03 mi to arrive at the Little Valley Fed 1H release area (GPS: 32.473324, -103.702496)

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- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Connor Walker](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 318073
Date: Tuesday, February 27, 2024 10:39:39 AM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2401946483.

The sampling event is expected to take place:

When: 03/06/2024 @ 09:00

Where: M-17-21S-32E 0 FNL 0 FEL (32.47324,-103.70204)

Additional Information: Sample tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechnv.com

Additional Instructions: From the intersection of US-180 and Co Rd 29 (GPS: 32.548806, -103.745576), head S on Co Rd 29 for 5.80 mi, then E for 1.06 mi, then S for 0.09 mi, then E for 0.19 mi, then N for 0.13 mi, then W for 0.03 mi to arrive at the Little Valley Fed 1H release area (GPS: 32.473324, -103.702496)

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- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

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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

QUESTIONS

Action 330187

QUESTIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	330187
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2401946483
Incident Name	NAPP2401946483 LITTLE VALLEY FEDERAL #1H @ 30-025-41496
Incident Type	Fire
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-41496] LITTLE VALLEY FEDERAL #001H
Incident Facility	[fAPP2125751097] LITTLE VALLEY FEDERAL #001H BATTERY

Location of Release Source	
Please answer all the questions in this group.	
Site Name	LITTLE VALLEY FEDERAL #1H
Date Release Discovered	01/10/2024
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Fire
Did this release result in a fire or is the result of a fire	Yes
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Fire Tank (Any) Produced Water Released: 272 BBL Recovered: 0 BBL Lost: 272 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 2

Action 330187

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	330187
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 01/19/2024
--	---

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

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

QUESTIONS, Page 3

Action 330187

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	330187
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Estimate or Other
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	4800
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	26.1
GRO+DRO	(EPA SW-846 Method 8015M)	26.1
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.1
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.3

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	02/15/2024
On what date will (or did) the final sampling or liner inspection occur	02/20/2024
On what date will (or was) the remediation complete(d)	03/04/2024
What is the estimated surface area (in square feet) that will be reclaimed	31823
What is the estimated volume (in cubic yards) that will be reclaimed	3760
What is the estimated surface area (in square feet) that will be remediated	31823
What is the estimated volume (in cubic yards) that will be remediated	3760

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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

QUESTIONS, Page 4

Action 330187

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	330187
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 04/04/2024
--	---

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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1220 S. St Francis Dr.
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QUESTIONS, Page 5

Action 330187

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 330187
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

District I

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Santa Fe, NM 87505

QUESTIONS, Page 6

Action 330187

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	330187
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	318073
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/06/2024
What was the (estimated) number of samples that were to be gathered	190
What was the sampling surface area in square feet	32809

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	31823
What was the total volume (cubic yards) remediated	3760
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	31823
What was the total volume (in cubic yards) reclaimed	3760
Summarize any additional remediation activities not included by answers (above)	Please refer to attached closure request for complete remediation/reclamation activities.

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 (in .pdf format) 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.

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.

I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 04/04/2024
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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

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Action 330187

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 330187
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 330187

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:
	14744
	Action Number:
	330187
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	5/14/2024
scott.rodgers	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	5/14/2024