

Remediation Summary & Soil Closure Request

Mewbourne Oil Company

Archduke 19 W2AP Fed Com #1H

Eddy County, New Mexico

Unit Letter "A", Section 19, Township 24 South, Range 27 East

Latitude 32.20955° North, Longitude 104.22248° West

NMOCD Reference No. nAPP2432631996

Prepared By:

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Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Archduke 19 W2AP Fed Com #1H (henceforth, "Site"). Details of the release are summarized below:

Location of Release Source				
Latitude: <u>32.20955°</u>		Longitude: <u>-104.22248°</u>		
Provided GPS are in WGS84 format.				
Site Name: Archduke 19 W2AP Fed Com #1H		Site Type: Tank Battery		
Date Release Discovered: 11/11/2024		API # (if applicable): N/A		
Unit Letter	Section	Township	Range	County
"A"	19	24S	27E	Eddy
Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Federal <input type="checkbox"/> Tribal <input type="checkbox"/> Private (Name _____)				
Nature and Volume of Release				
<input type="checkbox"/> Crude Oil	Volume Released (bbls)		Volume Recovered (bbls)	
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 782		Volume Recovered (bbls) 755	
	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: Mechanical failure allowing over pressurization resulting in a tank battery fire. The damaged tank battery and containment area were removed during the course of remediation activities.				
Initial Response				
<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.				

Previously submitted portions of the 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 26 and 50 (ft.)
What method was used to determine the depth to groundwater?	NM OSE iWaters Database Search
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?	Between 1,000 (ft.) and ½ (mi.)
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)?	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution or church?	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Between ½ and 1 (mi.)
Any other fresh water well or spring?	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field?	Between 1 and 5 (mi.)
A wetland?	Greater than 5 (mi.)
A subsurface mine?	Between 1,000 (ft.) and ½ (mi.)
A (non-karst) unstable area?	High
Categorize the risk of this well/site being in a karst geology.	Between ½ and 1 (mi.)
A 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	

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

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria**†	Reclamation Standards**‡
Between 26 and 50 (ft.)	Chloride (Cl-)	EPA** 300.0 or SM4500 Cl B	600	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	100	100
	Gas Range Organics + Diesel Range Organics (GRO+DRO)	EPA SW-846 Method 8015M	N/A	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

* Measured in milligrams per kilogram (mg/kg)

** Environmental Protection Agency

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

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

4.0 INITIAL SITE ASSESSMENT

On November 22, 2024, Etech conducted an initial site assessment. During the initial site assessment, three (3) test trenches (TT 1, TT 2, and TT 3) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. The trenches were advanced in increments of one (1) to two (2) feet to total depths ranging from three (3) feet (TT 1) to ten (10) feet (TT 3). During the advancement of the test trenches, soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab® chloride test kit.

Based on field observations and field test data, a total of 15 delineation soil samples (TT 1 @ Surf through TT 1 @ 3', TT 2 @ Surf through TT 2 @ 4', and TT 3 @ Surf through TT 3 @ 10') were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. A review of laboratory analytical results indicated that the vertical extent of impacted soil was adequately defined and ranged from less than one (1) foot bgs in the area characterized by trench TT 1 to eight (8) feet bgs in the area characterized by trench TT 3.

The locations of the test trenches are depicted in Figure 3, "Sample Location Map."

5.0 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 will (or did) the remediation commence?	12/18/2024	
On what date will (or did) the final sampling or liner inspection occur?	1/17/2025	
On what date will (or was) the remediation complete(d)?	1/27/2025	
What is the total surface area (sq. ft.) in need of or that will <i>eventually</i> be reclaimed?	43,224	
What is the total volume (cy) in need of or that will <i>eventually</i> be reclaimed?	2,818	
What was the total surface area (sq. ft.) that has or will be remediated?	43,224	
What was the total volume (cy) that has or will be remediated?	3,270	
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?	R360 Red Bluff Facility	
NMOCD Disposal Facility ID?	Texas	
Summarize any additional remediation activities not included by answers above.	See below	

On December 18, 2024, Etech commenced remediation activities at the Site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a 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 that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and 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 below:

Constituent	Highest Observable Concentration (mg/kg)	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	13,900	TT 3 @ Surf	11/22/2024	0	Excavated
TPH	91	TT 3 @ Surf	11/22/2024	0	Excavated
GRO+DRO	73	TT 3 @ Surf	11/22/2024	0	Excavated
BTEX	<0.300	All submitted soil samples	11/22, 12/17, 12/18, 12/20, 12/27/24; 1/6-1/8, 1/10, 1/13, 1/15-1/17/25	0-8	In-Situ & Excavated
Benzene	<0.050	All submitted soil samples	11/22, 12/17, 12/18, 12/20, 12/27/24; 1/6-1/8, 1/10, 1/13, 1/15-1/17/25	0-8	In-Situ & Excavated

Please reference Table 1 for additional information.

On December 17, 2024, Etech collected 16 confirmation soil samples (FL 1 @ 1' through FL 14 @ 4', SW 1, and SW 2) from the floor and sidewalls 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 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 16.0 mg/kg in soil sample SW 2 to 448 mg/kg in soil sample FL 14 @ 4'.

On December 18, 2024, Etech collected 28 confirmation soil samples (FL 15 @ 1' through FL 36 @ 3', FL 39 @ 2', SW 3, SW 4, WW 1, WW 2, and WW 3) from the floor and sidewalls 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 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 80.0 mg/kg in soil samples FL 24 @ 3' and WW 2 to 560 mg/kg in soil sample FL 31 @ 4'.

On December 20, 2024, Etech collected 26 confirmation soil samples (FL 37 @ 3', FL 38 @ 3', FL 40 @ 1' through FL 53 @ 1', FL 55 @ 1' through FL 63 @ 1', and NW 1) from the floor and sidewalls 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 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 30.0 mg/kg in soil sample FL 47 @ 1' to 528 mg/kg in soil sample FL 41 @ 1'.

On December 27, 2024, Etech collected 24 confirmation soil samples (FL 54 @ 2', FL 64 @ 2' through FL 85 @ 1', and NW 2) from the floor and sidewalls 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 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 16.0 mg/kg in soil sample FL 85 @ 1' to 544 mg/kg in soil sample FL 65 @ 2'.

On January 6, 2025, Etech collected 48 confirmation soil samples (FL 86 @ 2' through FL 130 @ 1', EW 1, EW 2, and WW 4) from the floor and sidewalls 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 and TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 64.0 mg/kg in soil sample FL 116 @ 1' to 1,250 mg/kg in soil sample FL 114 @ 1'. Chloride concentrations in soil samples FL 114 @ 1' and FL 122 @ 1' exceeded the NMOCD Closure Criterion and/or NMOCD Reclamation Standard. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples FL 114 @ 1' and FL 122 @ 1'.

On January 7, 2025, Etech collected 25 confirmation soil samples (FL 131 @ 1' through FL 151 @ 1', NW 3, EW 3, EW 4, and WW 5) from the floor and sidewalls 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 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 32.0 mg/kg in soil sample FL 148 @ 2' to 432 mg/kg in soil samples FL 134 @ 1' and WW 5.

On January 8, 2025, Etech collected 20 confirmation soil samples (FL 152 @ 1' through FL 167 @ 1', NW 4, NW 5, EW 5, and SW 5) from the floor and sidewalls 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 and TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 32.0 mg/kg in soil samples FL 155 @ 1' and FL 160 @ 1' to 608 mg/kg in soil sample FL 153 @ 1', which exceeded the NMOCD Closure Criterion and NMOCD Reclamation Standard. Based on these laboratory analytical results, the excavation was subsequently further advanced in the area characterized by soil sample FL 153 @ 1'.

On January 10, 2025, Etech collected 49 confirmation soil samples (FL 168 @ 2' through FL 216 @ 2') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL in a majority of the samples, with the exception of FL 202 @ 2' and FL 204 @ 2', which exhibited TPH concentrations of 13.0 mg/kg and 10.6 mg/kg, respectively. Chloride concentrations ranged from less than the laboratory MDL in soil sample FL 180 @ 2' to 704 mg/kg in soil sample FL 169 @ 2'. Chloride concentrations in soil samples FL 168 @ 2', FL 169 @ 2', and FL 205 @ 2' exceeded the NMOCD Closure Criterion and NMOCD Reclamation Standard. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples FL 168 @ 2', FL 169 @ 2', and FL 205 @ 2'.

On January 13, 2025, Etech collected two (2) confirmation soil samples (FL 114 @ 2' and FL 122 @ 2') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory MDL. Chloride concentrations were 192 mg/kg in soil sample FL 114 @ 2' and 208 mg/kg in soil sample FL 122 @ 2'.

On January 15, 2025, Etech collected one (1) confirmation soil sample (FL 153 @ 2') 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 BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. BTEX and TPH concentrations were also less than the applicable laboratory MDL. The chloride concentration was 192 mg/kg.

On January 17, 2025, Etech collected three (3) confirmation soil samples (FL 168 @ 3', FL 169 @ 3', and FL 205 @ 4') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory MDL. Chloride concentrations ranged from 144 mg/kg in soil sample FL 169 @ 3' to 336 mg/kg in soil sample FL 168 @ 3'.

The final dimensions of the excavated area were 294 feet in length, 16 to 194 feet in width, and one (1) to eight (8) feet in depth. During the course of remediation activities, Etech transported approximately 3,270 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 3,340 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. Field data is provided in Appendix B. General photographs of the site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D. Copies of all regulatory correspondence are provided in Appendix E.

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
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
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the site's existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
What was the total surface area (sq. ft.) remediated?	43,224	
What was the total volume (cy) remediated?	3,270	

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends Mewbourne Oil Company provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request remediation closure approval be granted to the Site.

7.0 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
Requesting a reclamation approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Requesting a restoration complete approval with this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
What was the total surface area (in square feet) reclaimed?	43,224	
What was the total volume (in cubic yards) reclaimed?	2,818	

On January 16, 2025, in accordance with NMOCD requirements, a 5-point composite soil sample (Backfill) was collected from the imported material stockpiled on-site to be utilized as backfill. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. Laboratory analytical results indicated that the BTEX, TPH, and chloride concentrations in the soil sample were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards and confirmed that the material was acceptable for use as backfill.

From January 17 through January 27, 2025, upon receiving laboratory analytical results from confirmation soil samples, the excavated area was 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.

The release was limited to the production pad of an active tank battery and did not impact the adjacent pasture. Final reclamation and restoration will be conducted upon decommissioning and abandonment of the facility. The reclaimed area will be revegetated with an agency and/or landowner-approved seed mix, which has been certified to be free of noxious weeds, during the first favorable growing season following closure of the facility. The seed will be installed at the prescribed rate utilizing either a seed drill or a broadcaster and harrow.

8.0 LIMITATIONS

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

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

9.0 DISTRIBUTION

Mewbourne Oil Company

4801 Business Park Blvd.

Hobbs, NM 88240

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2

811 S. First Street

Artesia, NM 88210

United States Department of the Interior

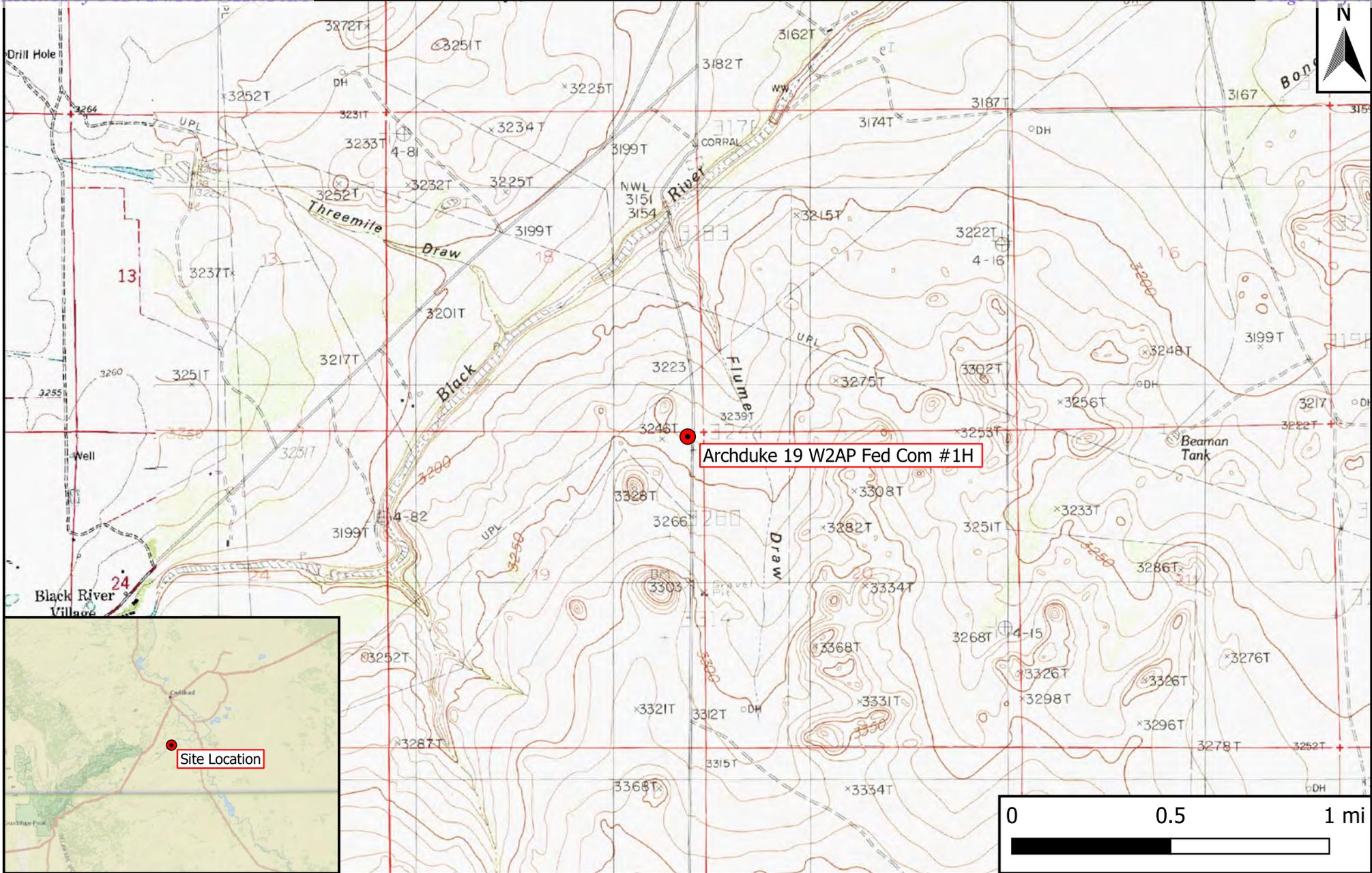
Bureau of Land Management

620 E. Greene Street

Carlsbad, NM 88220

(Electronic Submission)

Figure 1 Site Location Map



Legend
 ● Site Location

Figure 1
 Site Location Map
 Mewbourne Oil Company
 Archduke 19 W2AP Fed Com #1H
 GPS: 32.209637, -104.221879
 Eddy County, New Mexico



Drafted: mag Checked: rlc Date: 2024-11-12

Figures 2A & 2B Site Characterization Maps

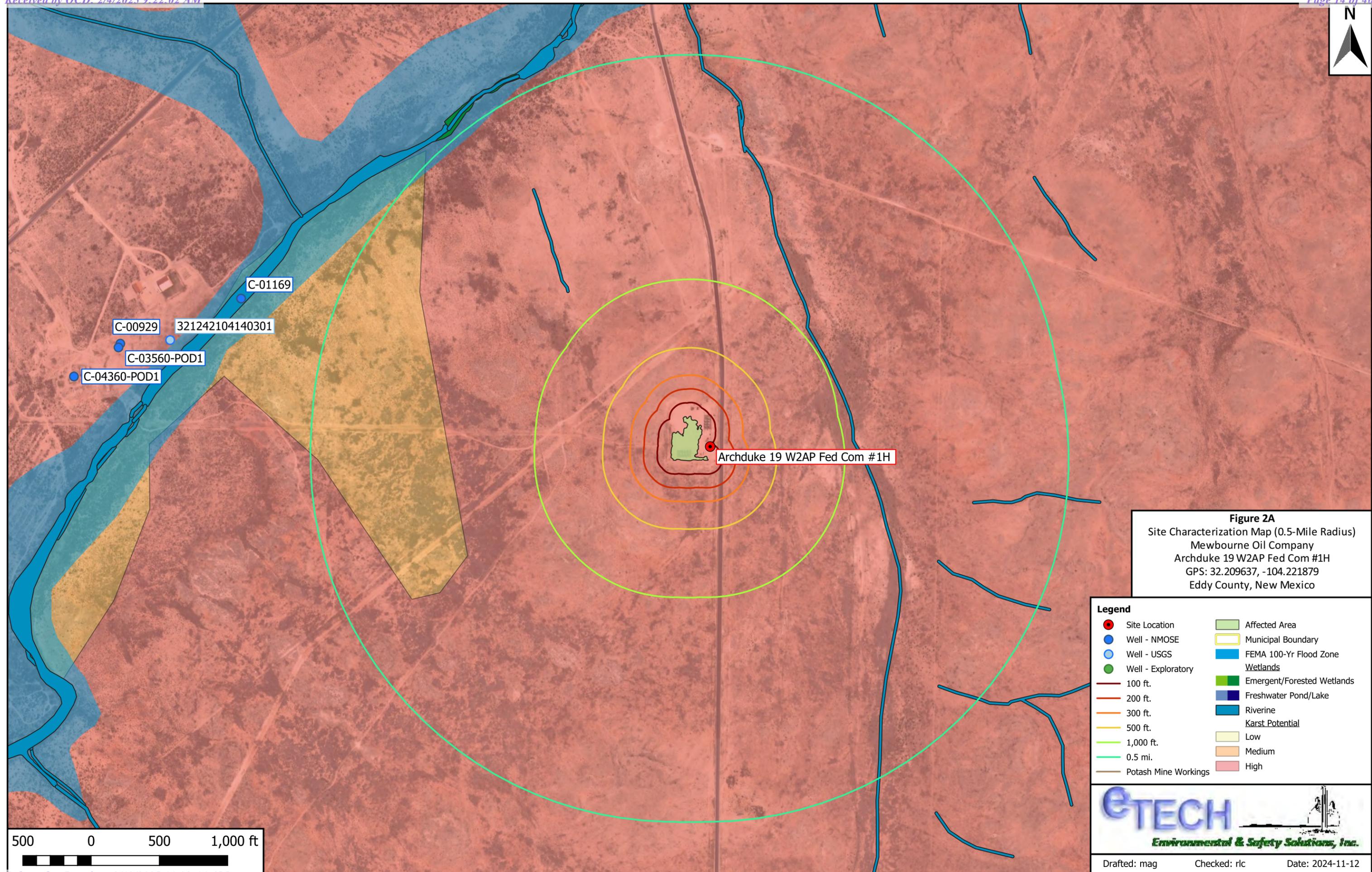
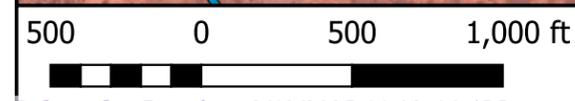


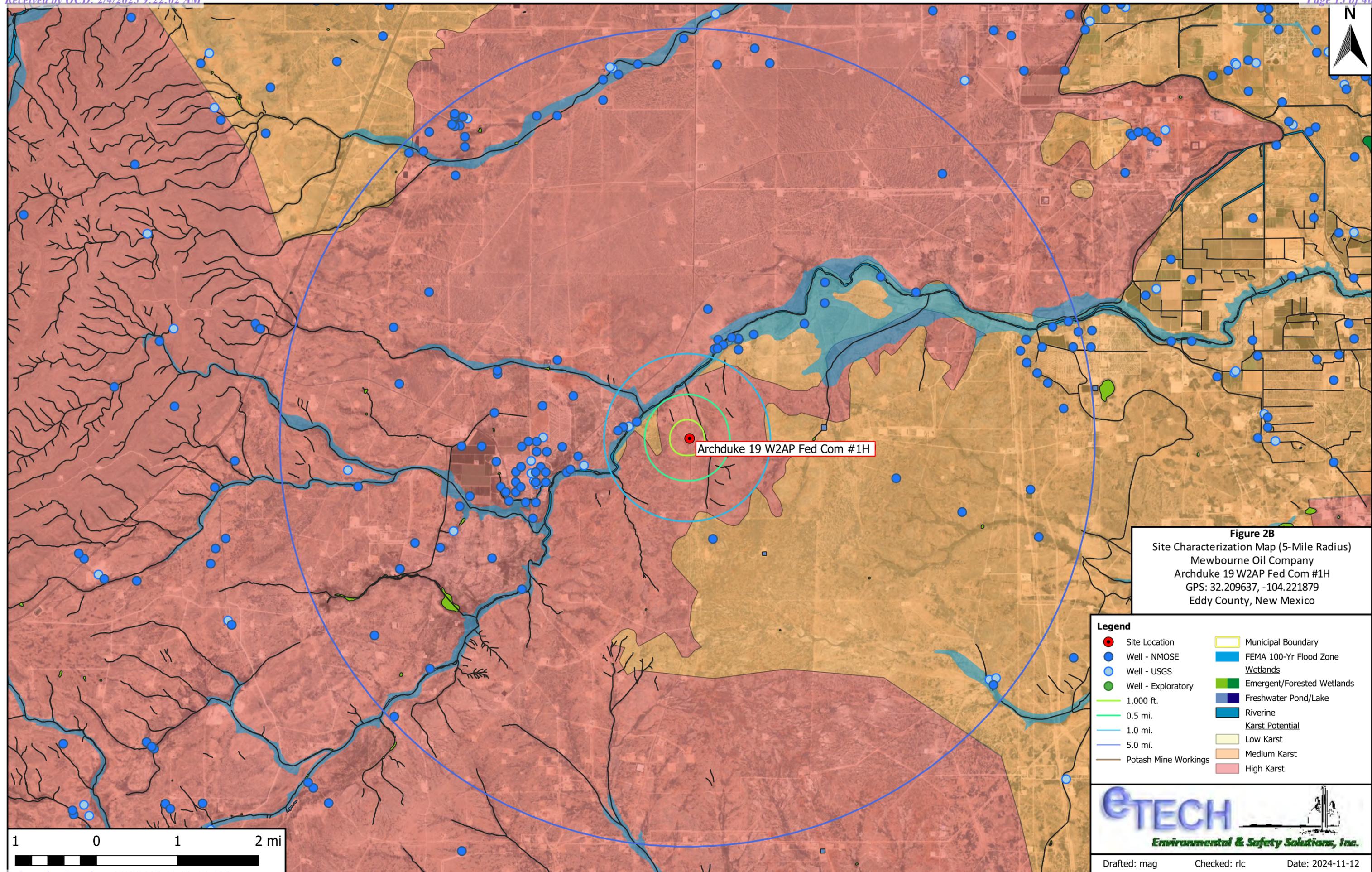
Figure 2A
 Site Characterization Map (0.5-Mile Radius)
 Mewbourne Oil Company
 Archduke 19 W2AP Fed Com #1H
 GPS: 32.209637, -104.221879
 Eddy County, New Mexico

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



Drafted: mag Checked: rlc Date: 2024-11-12





Archduke 19 W2AP Fed Com #1H

Figure 2B
 Site Characterization Map (5-Mile Radius)
 Mewbourne Oil Company
 Archduke 19 W2AP Fed Com #1H
 GPS: 32.209637, -104.221879
 Eddy County, New Mexico

Legend	
	Site Location
	Well - NMOSE
	Well - USGS
	Well - Exploratory
	1,000 ft.
	0.5 mi.
	1.0 mi.
	5.0 mi.
	Potash Mine Workings
	Municipal Boundary
	FEMA 100-Yr Flood Zone
	Wetlands
	Emergent/Forested Wetlands
	Freshwater Pond/Lake
	Riverine
	Karst Potential
	Low Karst
	Medium Karst
	High Karst

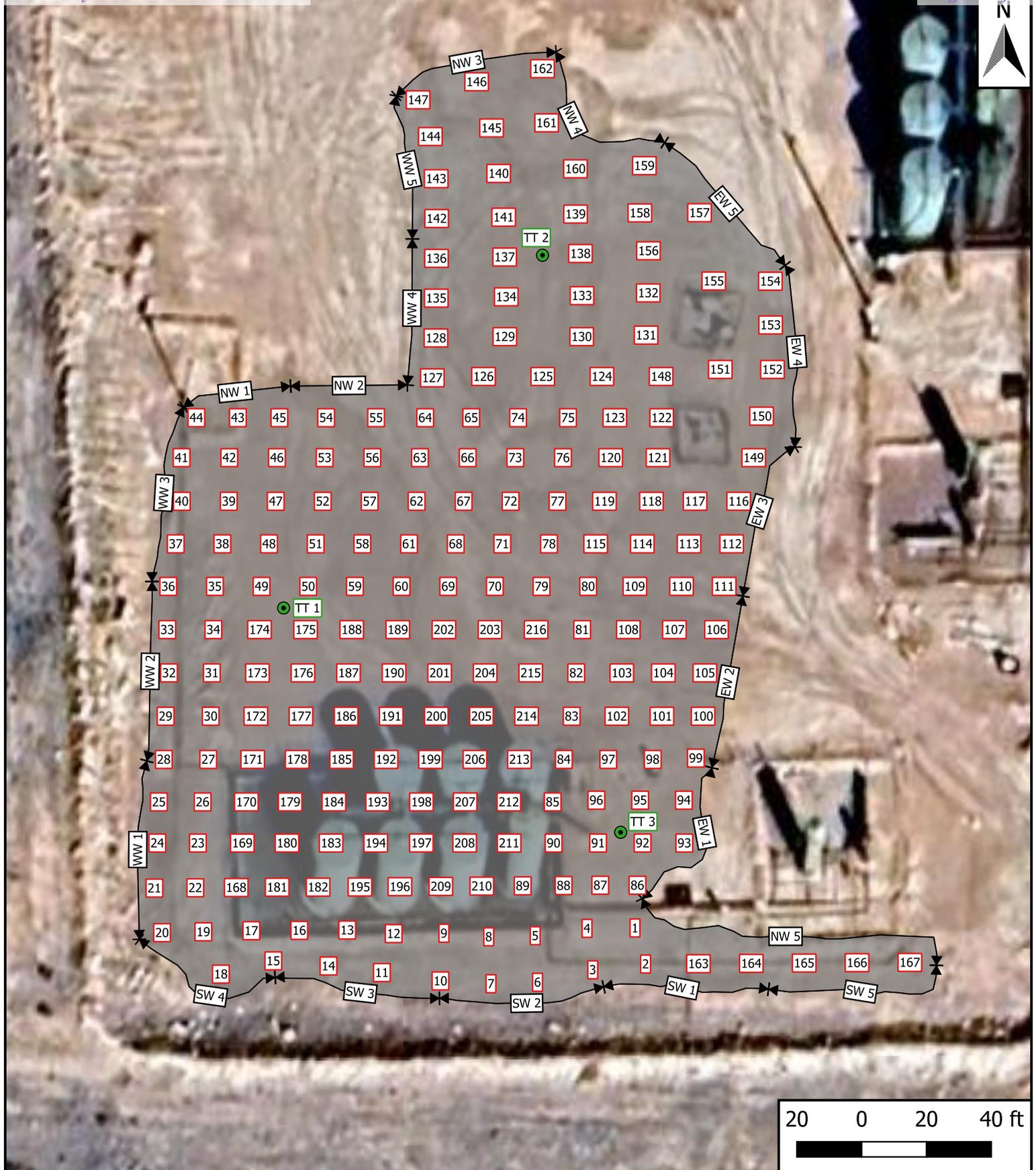


Drafted: mag Checked: rlc Date: 2024-11-12



Figure 3

Sample Location Map



- Legend**
- Excavation Extent
 - Composite Floor Sample
 - Composite Wall Sample
 - Delineation Sample Location

Figure 3
 Sample Location Map
 Mewbourne Oil Company
 Archduke 19 W2AP Fed Com #1H
 GPS: 32.209637, -104.221879
 Eddy County, New Mexico



Drafted: bja Checked: lc Date: 1/31/25

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Archduke 19 W2AP Fed Com #1H NMOCD Ref. #: nAPP2432631996											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
Delineation Samples											
TT 1 @ Surf	11/22/2024	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,260
TT 1 @ 1'	11/22/2024	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
TT 1 @ 2'	11/22/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
TT 1 @ 3'	11/22/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
TT 2 @ Surf	11/22/2024	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,330
TT 2 @ 1'	11/22/2024	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,000
TT 2 @ 2'	11/22/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
TT 2 @ 3'	11/22/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
TT 2 @ 4'	11/22/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
TT 3 @ Surf	11/22/2024	0	Excavated	<0.050	<0.300	<10.0	73.1	73.1	18.1	91.2	13,900
TT 3 @ 2'	11/22/2024	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
TT 3 @ 4'	11/22/2024	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
TT 3 @ 6'	11/22/2024	6	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,200
TT 3 @ 8'	11/22/2024	8	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	704
TT 3 @ 10'	11/22/2024	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
Excavation Samples											
FL 1 @ 1'	12/17/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 2 @ 1'	12/17/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FL 3 @ 8'	12/17/2024	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 4 @ 4'	12/17/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 5 @ 2'	12/17/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 6 @ 5'	12/17/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 7 @ 5'	12/17/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 8 @ 5'	12/17/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 9 @ 4'	12/17/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 10 @ 4'	12/17/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 11 @ 4'	12/17/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 12 @ 5'	12/17/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 13 @ 6'	12/17/2024	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL 14 @ 4'	12/17/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FL 15 @ 1'	12/18/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 16 @ 2'	12/18/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 17 @ 2'	12/18/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 18 @ 2'	12/18/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 19 @ 2'	12/18/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 20 @ 3'	12/18/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 21 @ 3'	12/18/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 22 @ 3'	12/18/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 23 @ 3'	12/18/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 24 @ 3'	12/18/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 25 @ 3'	12/18/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 26 @ 3'	12/18/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 27 @ 3'	12/18/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208

Dash (-): Sample not analyzed for that constituent.
 Bold: NMOCD Closure Criteria exceedance.
 Red: NMOCD Reclamation Standard exceedance.
 Red Border with Shading: Highest observed concentration.

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Archduke 19 W2AP Fed Com #1H
NMOCD Ref. #: nAPP2432631996

NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 28 @ 2'	12/18/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 29 @ 2'	12/18/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 30 @ 2'	12/18/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 31 @ 4'	12/18/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560
FL 32 @ 2'	12/18/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 33 @ 2'	12/18/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 34 @ 2'	12/18/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 35 @ 4'	12/18/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
FL 36 @ 3'	12/18/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 37 @ 3'	12/20/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
FL 38 @ 3'	12/20/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 39 @ 2'	12/18/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 40 @ 1'	12/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 41 @ 1'	12/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
FL 42 @ 1'	12/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 43 @ 1'	12/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
FL 44 @ 1'	12/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 45 @ 1'	12/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FL 46 @ 1'	12/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 47 @ 1'	12/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	30.0
FL 48 @ 1'	12/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 49 @ 1'	12/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 50 @ 1'	12/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 51 @ 1'	12/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 52 @ 1'	12/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 53 @ 1'	12/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 54 @ 2'	12/27/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 55 @ 1'	12/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 56 @ 1'	12/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 57 @ 1'	12/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FL 58 @ 1'	12/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FL 59 @ 3'	12/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 60 @ 3'	12/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 61 @ 1'	12/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 62 @ 1'	12/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 63 @ 1'	12/20/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 64 @ 2'	12/27/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 65 @ 2'	12/27/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
FL 66 @ 1'	12/27/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 67 @ 1'	12/27/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
FL 68 @ 1'	12/27/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 69 @ 1'	12/27/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 70 @ 1'	12/27/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 71 @ 1'	12/27/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192

Dash (-): Sample not analyzed for that constituent.
Bold: NMOCD Closure Criteria exceedance.
Red: NMOCD Reclamation Standard exceedance.
 Red Border with Shading: Highest observed concentration.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Archduke 19 W2AP Fed Com #1H NMOCD Ref. #: nAPP2432631996											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 72 @ 1'	12/27/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 73 @ 1'	12/27/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 74 @ 1'	12/27/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 75 @ 1'	12/27/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 76 @ 1'	12/27/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 77 @ 1'	12/27/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 78 @ 1'	12/27/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 79 @ 1'	12/27/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 80 @ 1'	12/27/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 81 @ 1'	12/27/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 82 @ 1'	12/27/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 83 @ 1'	12/27/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 84 @ 1'	12/27/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 85 @ 1'	12/27/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 86 @ 2'	1/6/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FL 87 @ 1'	1/6/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 88 @ 7'	1/6/2025	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 89 @ 7'	1/6/2025	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 90 @ 7'	1/6/2025	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 91 @ 7'	1/6/2025	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
FL 92 @ 7'	1/6/2025	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 93 @ 7'	1/6/2025	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 94 @ 2'	1/6/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 95 @ 1'	1/6/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
FL 96 @ 2'	1/6/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 97 @ 2'	1/6/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 98 @ 2'	1/6/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 99 @ 2'	1/6/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 100 @ 2'	1/6/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 101 @ 2'	1/6/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 102 @ 2'	1/6/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 103 @ 2'	1/6/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 104 @ 1'	1/6/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
FL 105 @ 1'	1/6/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 106 @ 1'	1/6/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FL 107 @ 2'	1/6/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 108 @ 2'	1/6/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 109 @ 1'	1/6/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 110 @ 1'	1/6/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 111 @ 1'	1/6/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 112 @ 1'	1/6/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FL 113 @ 1'	1/6/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 114 @ 1'	1/6/2025	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,250
FL 114 @ 2'	1/13/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192

Dash (-): Sample not analyzed for that constituent.
 Bold: NMOCD Closure Criteria exceedance.
 Red: NMOCD Reclamation Standard exceedance.
 Red Border with Shading: Highest observed concentration.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Archduke 19 W2AP Fed Com #1H NMOCD Ref. #: nAPP2432631996											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 115 @ 1'	1/6/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 116 @ 1'	1/6/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 117 @ 1'	1/6/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
FL 118 @ 1'	1/6/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 119 @ 1'	1/6/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 120 @ 1'	1/6/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 121 @ 1'	1/6/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FL 122 @ 1'	1/6/2025	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	736
FL 122 @ 2'	1/13/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 123 @ 1'	1/6/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 124 @ 1'	1/6/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 125 @ 1'	1/6/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 126 @ 1'	1/6/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 127 @ 1'	1/6/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 128 @ 1'	1/6/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 129 @ 1'	1/6/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 130 @ 1'	1/6/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 131 @ 1'	1/7/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 132 @ 1'	1/7/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 133 @ 1'	1/7/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 134 @ 1'	1/7/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
FL 135 @ 1'	1/7/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 136 @ 1'	1/7/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 137 @ 1'	1/7/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 138 @ 1'	1/7/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 139 @ 1'	1/7/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 140 @ 1'	1/7/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 141 @ 1'	1/7/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 142 @ 1'	1/7/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 143 @ 1'	1/7/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 144 @ 1'	1/7/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 145 @ 1'	1/7/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 146 @ 1'	1/7/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 147 @ 1'	1/7/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 148 @ 2'	1/7/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 149 @ 1'	1/7/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 150 @ 1'	1/7/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 151 @ 1'	1/7/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 152 @ 1'	1/8/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 153 @ 1'	1/8/2025	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	608
FL 153 @ 2'	1/15/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 154 @ 1'	1/8/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 155 @ 1'	1/8/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 156 @ 1'	1/8/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112

Dash (-): Sample not analyzed for that constituent.
Bold: NMOCD Closure Criteria exceedance.
Red: NMOCD Reclamation Standard exceedance.
 Red Border with Shading: Highest observed concentration.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Archduke 19 W2AP Fed Com #1H NMOCD Ref. #: nAPP2432631996											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 157 @ 1'	1/8/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 158 @ 1'	1/8/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 159 @ 1'	1/8/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 160 @ 1'	1/8/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 161 @ 1'	1/8/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 162 @ 1'	1/8/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 163 @ 2'	1/8/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 164 @ 2'	1/8/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 165 @ 1'	1/8/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 166 @ 1'	1/8/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 167 @ 1'	1/8/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 168 @ 2'	1/10/2025	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	640
FL 168 @ 3'	1/17/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 169 @ 2'	1/10/2025	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	704
FL 169 @ 3'	1/17/2025	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 170 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 171 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 172 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 173 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 174 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 175 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 176 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 177 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 178 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 179 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 180 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 181 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 182 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 183 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 184 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 185 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 186 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 187 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 188 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 189 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 190 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 191 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 192 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 193 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 194 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 195 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 196 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 197 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 198 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0

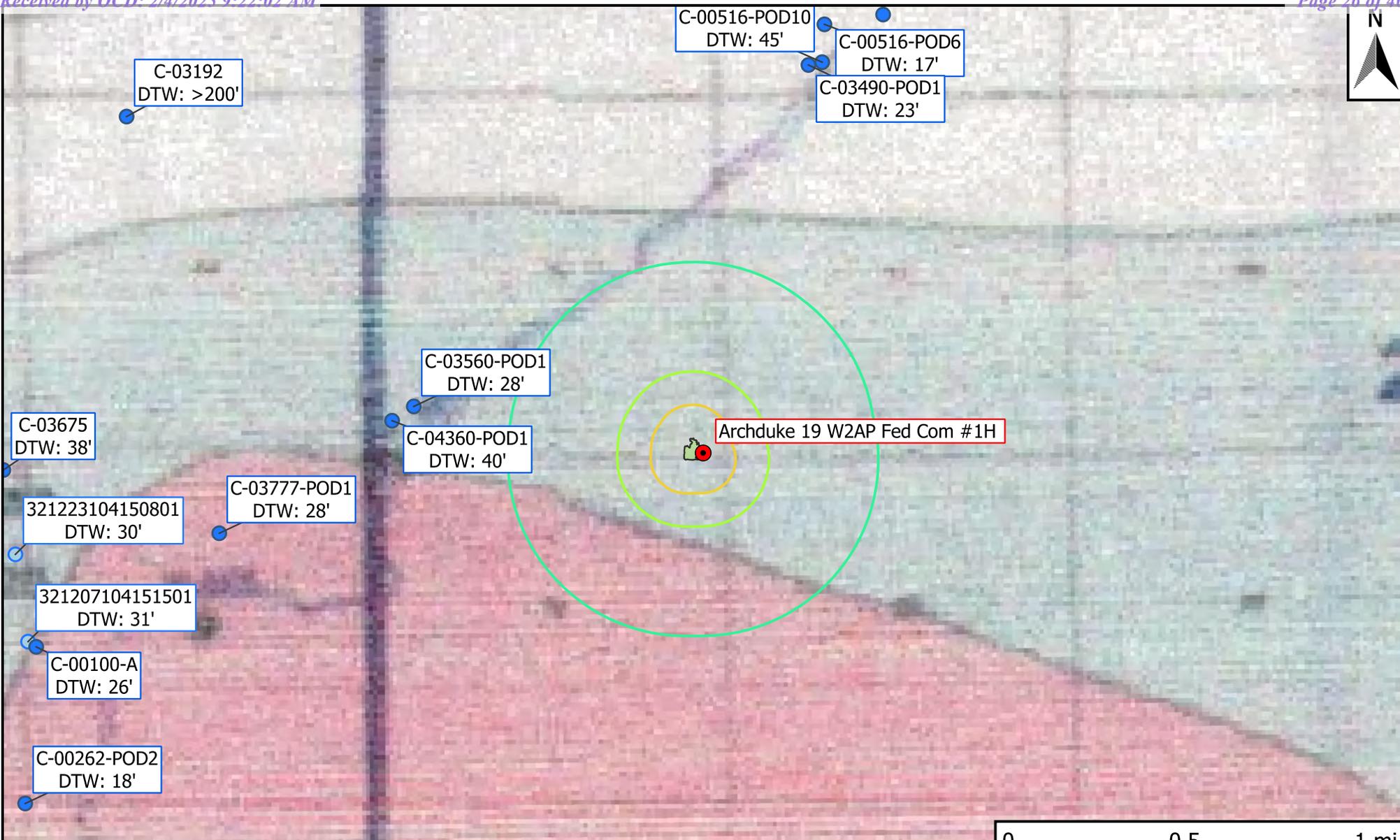
Dash (-): Sample not analyzed for that constituent.
 Bold: NMOCD Closure Criteria exceedance.
 Red: NMOCD Reclamation Standard exceedance.
 Red Border with Shading: Highest observed concentration.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Archduke 19 W2AP Fed Com #1H NMOCD Ref. #: nAPP2432631996											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 199 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 200 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 201 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 202 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	13.0	13.0	<10.0	13.0	224
FL 203 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 204 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	10.6	10.6	<10.0	10.6	256
FL 205 @ 2'	1/10/2025	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	640
FL 205 @ 4'	1/17/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 206 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 207 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 208 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 209 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 210 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 211 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 212 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 213 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 214 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 215 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 216 @ 2'	1/10/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
NW 1	12/20/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW 2	12/27/2024	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
NW 3	1/7/2025	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW 4	1/8/2025	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NW 5	1/8/2025	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
EW 1	1/6/2025	0-7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
EW 2	1/6/2025	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
EW 3	1/7/2025	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EW 4	1/7/2025	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EW 5	1/8/2025	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
SW 1	12/17/2024	0-8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
SW 2	12/17/2024	0-8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 3	12/18/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SW 4	12/18/2024	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW 5	1/8/2025	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
WW 1	12/18/2024	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
WW 2	12/18/2024	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WW 3	12/18/2024	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
WW 4	1/6/2025	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
WW 5	1/7/2025	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
Backfill Sample											
Backfill	1/16/2025	N/A	Backfill	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144

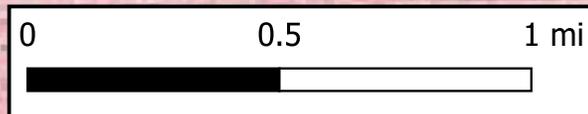
Dash (-): Sample not analyzed for that constituent.
 Bold: NMOCD Closure Criteria exceedance.
 Red: NMOCD Reclamation Standard exceedance.
 Red Border with Shading: Highest observed concentration.

Appendix A

Depth to Groundwater Information



Note: Only NMOSE and USGS wells with recent depth to groundwater gauging data are depicted.



Legend	
● Active Site Locations	 Affected Area
● Well - NMOSE	 500 ft.
● Well - USGS	 1,000 ft.
● Well - Exploratory	 0.5 mi.

Figure 4
 Inferred Depth to Groundwater Map
 Mewbourne Oil Company
 Archduke 19 W2AP Fed Com #1H
 GPS: 32.209637, -104.221879
 Eddy County, New Mexico

eTECH
 Environmental & Safety Solutions, Inc.

Drafted: mag Checked: rlc Date: 2024-11-12

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
22503	C 04360 POD1	SW	SW	SW	18	24S	27E	571910.0	3564085.3	

* UTM location was derived from PLSS - see Help

Driller License: 1348 **Driller Company:** TAYLOR WATER WELL SERVICE

Driller Name: TAYLOR, CLINTON E.E.ENER

Drill Start Date: 2019-11-01 **Drill Finish Date:** 2019-11-04 **Plug Date:**

Log File Date: 2019-11-18 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 100

Casing Size: 4.50 **Depth Well:** 72 **Depth Water:** 40

Water Bearing Stratifications:

Top	Bottom	Description
40	54	Limestone/Dolomite/Chalk
54	60	Sandstone/Gravel/Conglomerate
60	72	Other/Unknown

Casing Perforations:

Top	Bottom
39	72

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11/12/24 1:58 PM MST

Point of Diversion Summary

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WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-4360		WELL TAG ID NO. 22503		OSE FILE NO(S)			
	WELL OWNER NAME(S) Daniel Magby				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 1035 Black River Village Rd.				CITY Carlsbad	STATE NM	ZIP 88220	
	WELL LOCATION (FROM GPS)	LATITUDE	DEGREES 32	MINUTES 12	SECONDS 39.8	N		* ACCURACY REQUIRED: ONE TENTH OF A SECOND
	LONGITUDE	104	14	13.0	W		* DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Well is at 1035 Black River Village Rd. next to metal building.								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1348		NAME OF LICENSED DRILLER Clinton E Taylor			NAME OF WELL DRILLING COMPANY Taylor Water Well Service		
	DRILLING STARTED 11/1/2019		DRILLING ENDED 11/4/2019		DEPTH OF COMPLETED WELL (FT) 72	BORE HOLE DEPTH (FT) 80	DEPTH WATER FIRST ENCOUNTERED (FT) 40	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)						STATIC WATER LEVEL IN COMPLETED WELL (FT) 29	
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD		ADDITIVES - SPECIFY:					
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	+1.5	20	9	Pvc	Spline 5 3/4	4 1/2	.291	
	20	39.5	7 7/8	Pvc	Spline 5 3/4	4 1/2	.291	
	39.5	72	7 7/8	Pvc	Spline 5 3/4	4 1/2	.291	.032
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	20	9	Bentonite Chips	8 Sacks	Dump		
	20	72	7 7/8	3/8" Pea Gravel	2 1/2 Yards	Dump		

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/19)	
FILE NO. C4360	POD NO. 1	TRN NO. 659077	
LOCATION Down 24.27.18.333	WELL TAG ID NO. 22503	PAGE 1 OF 2	

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	C 03560 POD1	NE	SW	SW	18	24S	27E	572009.0	3564150.6	

* UTM location was derived from PLSS - see Help

Driller License:	1348	Driller Company:	TAYLOR WATER WELL SERVICE		
Driller Name:	TAYLOR, CLINTON E.				
Drill Start Date:	2013-02-07	Drill Finish Date:	2013-02-07	Plug Date:	
Log File Date:	2013-03-26	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	100
Casing Size:	4.50	Depth Well:	68	Depth Water:	28

Water Bearing Stratifications:

Top	Bottom	Description
42	64	Shale/Mudstone/Siltstone

Casing Perforations:

Top	Bottom
38	58

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11/12/24 1:57 PM MST

Point of Diversion Summary

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WELL RECORD & LOG

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STATE ENGINEER OFFICE
ROSWELL

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER)				OSE FILE NUMBER 2013 MAR 26 A 10-04 C-3560					
	WELL OWNER NAME(S) Daniel Magby				PHONE (OPTIONAL) 575-706-4380					
	WELL OWNER MAILING ADDRESS 1051-2 Black River Village Rd.				CITY Carlsbad		STATE NM		ZIP 88220	
	WELL LOCATION (FROM GPS)		DEGREES LATTITUDE		MINUTES LONGITUDE		SECONDS N		* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
			32		12		41.9		* DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Well is several hundred feet from new metal framed house.										
2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD-1348		NAME OF LICENSED DRILLER Clinton E. Taylor				NAME OF WELL DRILLING COMPANY Taylor Water Well Service			
	DRILLING STARTED 2/7/2013		DRILLING ENDED 2/7/2013		DEPTH OF COMPLETED WELL (FT) 58.5		BORE HOLE DEPTH (FT) 68		DEPTH WATER FIRST ENCOUNTERED (FT) 42	
	COMPLETED WELL IS: <input type="radio"/> ARTESIAN <input type="radio"/> DRY HOLE <input checked="" type="radio"/> SHALLOW (UNCONFINED)								STATIC WATER LEVEL IN COMPLETED WELL (FT) 28	
	DRILLING FLUID: <input checked="" type="radio"/> AIR <input type="radio"/> MUD ADDITIVES - SPECIFY:									
	DRILLING METHOD: <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:									
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)		
	FROM	TO								
	+1.5	38.5	7 7/8	PVC	Spline	4 1/2	SDR 17			
	38.5	58.5	7 7/8	PVC	Spline	4 1/2	SDR 17	.032		
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT				
	FROM	TO								
	0	20	7 7/8	Bentonite Grout	3 Sacks	Tremie				
	20	58.5	7 7/8	Pea Gravel	1/2 Yard	Dump				

FOR OSE INTERNAL USE				WR-20 WELL RECORD & LOG (Version 06/08/2012)			
FILE NUMBER		POD NUMBER		TRN NUMBER		PAGE 1 OF 2	
C-3560		1		507451			
LOCATION							
Dom		245.27E.18.332					

Appendix B Field Data



Sample Log

Date: _____

Project: _____

Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
TT-1 @ Surface	-		
TT-1 @ 1'	-	824	
TT-1 @ 3'	-	1048	
TT-1 @ 3'	-	ND	
TT-2 @ Surface	-		
TT-2 @ 1'	-	2430	
TT-2 @ 2'	-	768	
TT-2 @ 3'	-	644	
TT-2 @ 4'	-	386	
TT-3 @ Surface	-		
TT-3 @ 1'	-	2420	
TT-3 @ 2'	-	972	
TT-3 @ 3'	-	972	
TT-3 @ 4'	-	628	
TT-3 @ 6'	-	2430	
TT-3 @ 8'	-	724	
TT-3 @ 10'	-	356	
SW-1		396	
FL-1 @ 1'		220	
FL-2 @ 1'		536	
FL-3 @ 1'		1306	
FL-4 @ 1'		1396	
FL-5 @ 1'		1964	
FL-6 @ 1'		1826	
FL-4 @ 2'		972	
FL-4 @ 3'		644	
FL-4 @ 4'		396	
FL-3 @ 2'		1496	
FL-3 @ 3'		1300	
FL-3 @ 4'		1396	
FL-3 @ 5'		1300	
FL-3 @ 6'		536	
FL-6 @ 5'		588	
SW-2		1128	
SW-2		116	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

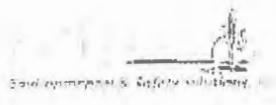
Refusal = SP #1 @ 4'-R

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: _____

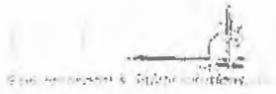
Project: _____
 Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL-7 @ 1'	-	1,836	
FL-7 @ 3'	-	1,388	
FL-7 @ 4'	-	298	
FL-8 @ 1'	-	1,964	
FL-10 @ 1'	-	1,388	
FL-10 @ 3'	-	700	
FL-10 @ 4'	-	220	
FL-9 @ 1'	-	2,420	
FL-8 @ 5'	-	484	
FL-7 @ 4'	-	248	
FL-10 @ 4'	-	220	
FL-11 @ 4'	-	164	
FL-12 @ 4'	-	624	
FL-12 @ 5'	-	248	
FL-13 @ 5'	-	624	
FL-14 @ 4'	-	638	
FL-13 @ 6'	-	76	
FL @ 1'	-	164	
FL @ 2'	-	220	
SW-3	-	252	
FL-17 @ 2'	-	124	
SW-test	-	124	
FL-18 @ 2'	-	192	
FL-19 @ 2'	-	220	
SW-100	-	632	
SW-101	-	114	
FL-20 @ 2'	-	624	
FL-21 @ 2'	-	1,028	
FL-20 @ 3'	-	124	
FL-21 @ 3'	-	124	
FL-22 @ 3'	-	124	
FL-23 @ 3'	-	192	
FL-24 @ 3'	-	192	
FL-25 @ 3'	-	192	
FL-26 @ 3'	-	192	

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-27 @ 5'	-	316	
FL-28 @ 2'	-	306	
FL-29 @ 2'	-	505	
FL-30 @ 2'	-	198	
FL-31 @ 2'	-	1296	
FL-31 @ 3'	-	1916	
FL-31 @ 4'	-	436	
FL-32 @ 2'	-	200	
FL-33 @ 2'	-	319	
SW-2	-		
SW-3	-	1200	
SW-5	-	216	
FL-34 @ 2'	-	216	
FL-35 @ 2'	-	406	
FL-35 @ 3'	-	360	
FL-36 @ 4'	-	500	
FL-37 @ 3	-	100	
FL-37 @ 2	-	100	
FL-38 @ 1'	-	42	
FL-39 @ 1	-	200	
FL-40 @ 2'	-	600	
FL-41 @ 2'	-	300	
FL-42 @ 3'	-	400	
FL-43 @ 2	-	100	
SW-1	-	100	
FL-44 @ 1'	-	100	
FL-44 @ 1'	-	200	
FL-45 @ 1'	-	300	
FL-46 @ 1'	-	200	
FL-47 @ 1'	-	400	
FL-48 @ 1'	-	100	
FL-49 @ 1'	-	116	

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 Camp Area

Sample Log

Date: _____

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

Sample ID	PID/Odor	Chloride Conc.	GPS
FL-48 @ 1'	-	216	
FL-49 @ 1'	-	122	
FL-50 @ 1'	-	116	
FL-51 @ 1'	-	252	
FL-52 @ 1'	-	480	
FL-53 @ 1'	-	252	
FL-54 @ 1'	-	528	
FL-54 @ 1'	-	744	
FL-55 @ 1'	-	244	
FL-56 @ 1'	-	188	
FL-57 @ 1'	-	364	
FL-58 @ 1'	-	304	
FL-59 @ 1'	-	188	
FL-60 @ 1'	-	168	
FL-61 @ 1'	-	116	
FL-62 @ 1'	-	116	
FL-63 @ 1'	-	216	
FL-64 @ 1'	-	188	
FL-65 @ 1'	-	424	
FL-66 @ 1'	-	440	
FL-67 @ 1'	-	872	
FL-68 @ 1'	-	248	
FL-69 @ 1'	-	484	
FL-70 @ 1'	-	484	
FL-71 @ 1'	-	156	
FL-72 @ 1'	-	188	
FL-73 @ 1'	-	220	
FL-74 @ 1'	-	220	
FL-74 @ 2'	-	440	
FL-75 @ 1'	-	280	
FL-76 @ 1'	-	188	
FL-77 @ 1'	-	396	
FL-78 @ 1'	-	248	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewalk = 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 @ Sb or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Received by OCD: 2/4/2025 9:22:02 AM

Released to Imaging: 2/12/2025 11:39:16 AM



Sample Log

Date: _____

Project: _____

Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL-79 @ 1'	-	544	
FL-79 @ 2'	-	188	
FL-80 @ 1'	-	316	
FL-81 @ 1'	-	220	
FL-82 @ 1'	-	220	
FL-83 @ 1'	-	254	
FL-84 @ 1'	-	316	
FL-85 @ 1'	-	ND	
NW-2	-		
FL-86 @ 2'	-	140	
FL-87 @ 1'	-	248	
FL-87 @ 7'	-	228	
FL-89 @ 7'	-	220	
FL-90 @ 7'	-	316	
FL-91 @ 7'	-	536	
FL-92 @ 7'	-	254	
FL-93 @ 7'	-	248	
FL-94 @ 1'	-	1276	
FL-95 @ 1'	-	116	
FL-96 @ 1'	-	3500	
FL-94 @ 2'	-	392	
FL-96 @ 2'	-	168	
FL-97 @ 1'	-	1464	
FL-98 @ 1'	-	2584	
FL-99 @ 1'	-	752	
FL-99 @ 2'	-	220	
FL-100 @ 1'	-	2594	
FL-100 @ 2'	-	192	
FL-101 @ 1'	-	1568	
FL-102 @ 1'	-	1928	
FL-97 @ 2'	-	284	
FL-98 @ 2'	-	168	
FL-101 @ 2'	-	220	
FL-102 @ 2'	-	252	

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-103 @ 1'	-	2584	
FL-104 @ 1'	-	190	
FL-105 @ 1'	-	352	
FL-106 @ 1'	-	352	
FL-107 @ 1'	-	1192	
FL-108 @ 1'	-	1104	
FL-103 @ 2'	-	352	
FL-107 @ 2'	-	204	
FL-109 @ 2'	-	204	
FL-109 @ 1'	-	192	
FL-110 @ 1'	-	144	
FL-111 @ 1'	-	262	
FL-112 @ 1'	-	490	
FL-113 @ 1'	-	1276	
FL-114 @ 1'	-	220	
FL-115 @ 1'	-	220	
FL-116 @ 1'	-	ND	
FL-117 @ 1'	-	836	
FL-118 @ 1'	-		
WW-4	-	292	
FL-119 @ 1'	-	248	
FL-120 @ 1'	-	820	
FL-121 @ 1'	-	580	
FL-122 @ 1'	-	528	
FL-123 @ 1'	-	146	
FL-124 @ 1'	-	644	
FL-125 @ 1'	-	248	
FL-126 @ 1'	-	440	
FL-127 @ 1'	-	494	
FL-128 @ 1'	-	220	
FL-129 @ 1'	-	440	
FL-130 @ 1'	-	ND	
WW-3	-	116	
FL-131 @ 1'	-	296	
FL-132 @ 1'	-	356	
FL-133 @ 1'	-	116	

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-163 @ 2'	-	260	
FL-164 @ 1'	-	600	
FL-164 @ 2'	-	260	
SW-5	-	222	
FL-165 @ 1'	-	412	
FL-166 @ 1'	-	368	
FL-167 @ 1'	-	140	
NW-5	-	260	
FL-168 @ 2'	-	500	
FL-169 @ 2'	-	500	
FL-170 @ 2'	-	228	
FL-171 @ 2'	-	260	
FL-172 @ 2'	-	168	
FL-173 @ 2'	-	196	
FL-174 @ 2'	-	260	
FL-175 @ 2'	-	588	
FL-176 @ 2'	-	228	
FL-177 @ 2'	-	168	
FL-178 @ 2'	-	98	
FL-179 @ 2'	-	228	
FL-180 @ 2'	-	412	
FL-181 @ 2'	-	284	
FL-182 @ 2'	-	196	
FL-183 @ 2'	-	196	
FL-184 @ 2'	-	ND	
FL-185 @ 2'	-	260	
FL-186 @ 2'	-	412	
FL-187 @ 2'	-	420	
FL-188 @ 2'	-	412	
FL-189 @ 2'	-	332	
FL-190 @ 2'	-	260	
FL-191 @ 2'	-	284	
FL-192 @ 2'	-	508	
FL-193 @ 2'	-	412	
FL-194 @ 2'	-	228	
FL-195 @ 2'	-	228	

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

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

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

Appendix C

Photographic Log

Photographic Log

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

Photo Number: 2	
Photo Direction: South-Southeast	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 3	
Photo Direction: Northeast	
Photo Description: View of the affected area.	

Photo Number: 4	
Photo Direction: South-Southeast	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 5	 <p>WGS84 32.20976, -104.22277 3253 NE17</p> <p>11-Nov-24 11:07 MCC - Archduke 19 Battery Carlsbad NM 89220, United States © 11-Nov-24 11:07:06</p>
Photo Direction: North-Northeast	
Photo Description: View of the affected area.	

Photo Number: 6	 <p>WGS84 32.20990, -104.22261 3252 S167</p> <p>11-Nov-24 11:09 MCC - Archduke 19 Battery Carlsbad NM 89220, United States © 11-Nov-24 11:08:06</p>
Photo Direction: South-Southeast	
Photo Description: View of the affected area.	

Photographic Log

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

Photo Number: 8	
Photo Direction: North	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 9	 <p>Network: Jan 14, 2025 at 9:50:51 AM MST Local: Jan 14, 2025 at 9:50:51 AM MST N 32° 12' 34.087", W 104° 13' 21.756" Carlsbad NM 88220 United States</p>
Photo Direction: East	
Photo Description: View of the excavated area.	

Photo Number: 10	 <p>Network: Jan 14, 2025 at 9:50:54 AM MST Local: Jan 14, 2025 at 9:50:54 AM MST N 32° 12' 33.894", W 104° 13' 22.064" Carlsbad NM 88220 United States</p>
Photo Direction: North-Northeast	
Photo Description: View of the excavated area.	

Photographic Log

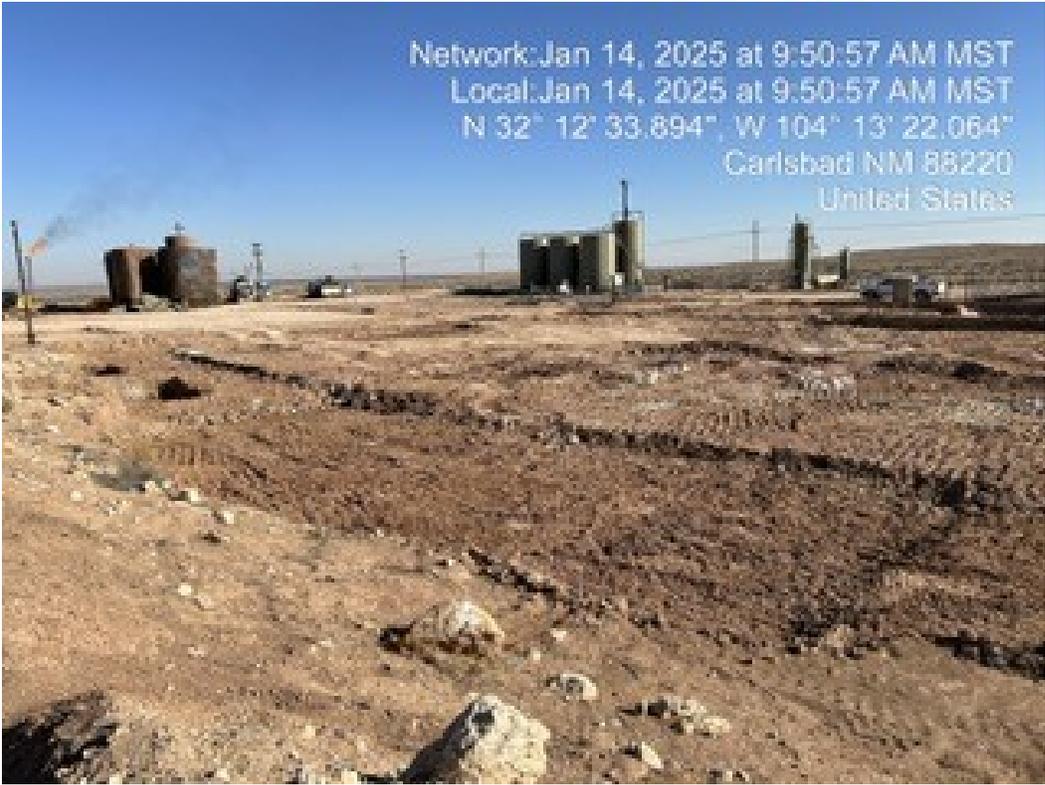
Photo Number: 11	 <p>Network: Jan 14, 2025 at 9:50:57 AM MST Local: Jan 14, 2025 at 9:50:57 AM MST N 32° 12' 33.894", W 104° 13' 22.064" Carlsbad NM 88220 United States</p>
Photo Direction: Northeast	
Photo Description: View of the excavated area.	

Photo Number: 12	 <p>Network: Jan 14, 2025 at 9:51:11 AM MST Local: Jan 14, 2025 at 9:51:11 AM MST N 32° 12' 33.894", W 104° 13' 22.064" Carlsbad NM 88220 United States</p>
Photo Direction: East-Southeast	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 13	 <p>Network: Jan 27, 2025 at 3:56:43 PM MST Local: Jan 27, 2025 at 3:56:43 PM MST N 32° 12' 36.903", W 104° 13' 20.202" Old Gavern Hwy Carlsbad NM 88220 United States</p>
Photo Direction: South	
Photo Description: View of the remediated area following backfilling and regrading.	

Photo Number: 14	 <p>Network: Jan 27, 2025 at 3:58:14 PM MST Local: Jan 27, 2025 at 3:58:14 PM MST N 32° 12' 34.991", W 104° 13' 20.378" Old Gavern Hwy Carlsbad NM 88220 United States</p>
Photo Direction: South	
Photo Description: View of the remediated area following backfilling and regrading.	

Photographic Log

Photo Number: 15	 <p>Network: Jan 27, 2025 at 4:02:14 PM MST Local: Jan 27, 2025 at 4:02:14 PM MST N 32° 12' 35.632", W 104° 13' 22.283" Carlsbad NM 88220 United States</p>
Photo Direction: Southeast	
Photo Description: View of the remediated area following backfilling and regrading.	

Photo Number: 16	 <p>Network: Jan 27, 2025 at 4:03:20 PM MST Local: Jan 27, 2025 at 4:03:20 PM MST N 32° 12' 33.825", W 104° 13' 22.323" Carlsbad NM 88220 United States</p>
Photo Direction: East	
Photo Description: View of the remediated area following backfilling and regrading.	

Appendix D

Laboratory Analytical Reports



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

December 03, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ARCHDUKE 19 W2AP FED COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 11/25/24 14:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/25/2024	Sampling Date:	11/22/2024
Reported:	12/03/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: TT 1@ SURF (H247220-01)

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	11/28/2024	ND	2.11	105	2.00	2.26	
Toluene*	<0.050	0.050	11/28/2024	ND	2.17	108	2.00	1.97	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.14	107	2.00	2.01	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.34	106	6.00	1.55	
Total BTEX	<0.300	0.300	11/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	6260	16.0	11/27/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	213	107	200	3.54	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	197	98.7	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/25/2024	Sampling Date:	11/22/2024
Reported:	12/03/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: TT 1 @ 1' (H247220-02)

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	11/28/2024	ND	2.11	105	2.00	2.26	
Toluene*	<0.050	0.050	11/28/2024	ND	2.17	108	2.00	1.97	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.14	107	2.00	2.01	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.34	106	6.00	1.55	
Total BTEX	<0.300	0.300	11/28/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	11/27/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	213	107	200	3.54	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	197	98.7	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					

Surrogate: 1-Chlorooctane 82.4 % 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:	11/25/2024	Sampling Date:	11/22/2024
Reported:	12/03/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: TT 1 @ 2' (H247220-03)

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	11/28/2024	ND	2.11	105	2.00	2.26	
Toluene*	<0.050	0.050	11/28/2024	ND	2.17	108	2.00	1.97	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.14	107	2.00	2.01	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.34	106	6.00	1.55	
Total BTEX	<0.300	0.300	11/28/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/27/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	213	107	200	3.54	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	197	98.7	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 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:	11/25/2024	Sampling Date:	11/22/2024
Reported:	12/03/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: TT 1 @ 3' (H247220-04)

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	11/28/2024	ND	2.11	105	2.00	2.26	
Toluene*	<0.050	0.050	11/28/2024	ND	2.17	108	2.00	1.97	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.14	107	2.00	2.01	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.34	106	6.00	1.55	
Total BTEX	<0.300	0.300	11/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	11/27/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	213	107	200	3.54	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	197	98.7	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.6 % 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:	11/25/2024	Sampling Date:	11/22/2024
Reported:	12/03/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: TT 2 @ SURF (H247220-05)

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	11/28/2024	ND	2.11	105	2.00	2.26	
Toluene*	<0.050	0.050	11/28/2024	ND	2.17	108	2.00	1.97	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.14	107	2.00	2.01	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.34	106	6.00	1.55	
Total BTEX	<0.300	0.300	11/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	5330	16.0	11/27/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	213	107	200	3.54	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	197	98.7	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.8 % 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:	11/25/2024	Sampling Date:	11/22/2024
Reported:	12/03/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: TT 2 @ 1' (H247220-06)

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	11/28/2024	ND	2.11	105	2.00	2.26	
Toluene*	<0.050	0.050	11/28/2024	ND	2.17	108	2.00	1.97	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.14	107	2.00	2.01	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.34	106	6.00	1.55	
Total BTEX	<0.300	0.300	11/28/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	11/27/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	213	107	200	3.54	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	197	98.7	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.7 % 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:	11/25/2024	Sampling Date:	11/22/2024
Reported:	12/03/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: TT 2 @ 2' (H247220-07)

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	11/28/2024	ND	2.11	105	2.00	2.26	
Toluene*	<0.050	0.050	11/28/2024	ND	2.17	108	2.00	1.97	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.14	107	2.00	2.01	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.34	106	6.00	1.55	
Total BTEX	<0.300	0.300	11/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	11/27/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	213	107	200	3.54	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	197	98.7	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.6 % 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:	11/25/2024	Sampling Date:	11/22/2024
Reported:	12/03/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: TT 2 @ 3' (H247220-08)

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	11/28/2024	ND	2.11	105	2.00	2.26	
Toluene*	<0.050	0.050	11/28/2024	ND	2.17	108	2.00	1.97	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.14	107	2.00	2.01	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.34	106	6.00	1.55	
Total BTEX	<0.300	0.300	11/28/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/27/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	195	97.3	200	3.11	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	198	98.9	200	3.00	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Analytical Results For:

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

Received:	11/25/2024	Sampling Date:	11/22/2024
Reported:	12/03/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: TT 2 @ 4' (H247220-09)

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	11/28/2024	ND	2.11	105	2.00	2.26	
Toluene*	<0.050	0.050	11/28/2024	ND	2.17	108	2.00	1.97	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.14	107	2.00	2.01	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.34	106	6.00	1.55	
Total BTEX	<0.300	0.300	11/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	11/27/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	195	97.3	200	3.11	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	198	98.9	200	3.00	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
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Received:	11/25/2024	Sampling Date:	11/22/2024
Reported:	12/03/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: TT 3 @ SURF (H247220-10)

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	11/28/2024	ND	2.11	105	2.00	2.26	
Toluene*	<0.050	0.050	11/28/2024	ND	2.17	108	2.00	1.97	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.14	107	2.00	2.01	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.34	106	6.00	1.55	
Total BTEX	<0.300	0.300	11/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	13900	16.0	11/27/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	195	97.3	200	3.11	
DRO >C10-C28*	73.1	10.0	11/27/2024	ND	198	98.9	200	3.00	
EXT DRO >C28-C36	18.1	10.0	11/27/2024	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
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 Fax To:

Received:	11/25/2024	Sampling Date:	11/22/2024
Reported:	12/03/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: TT 3 @ 2' (H247220-11)

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	11/28/2024	ND	2.11	105	2.00	2.26		
Toluene*	<0.050	0.050	11/28/2024	ND	2.17	108	2.00	1.97		
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.14	107	2.00	2.01		
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.34	106	6.00	1.55		
Total BTEX	<0.300	0.300	11/28/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	11/27/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	195	97.3	200	3.11		
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	198	98.9	200	3.00		
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND						

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	11/25/2024	Sampling Date:	11/22/2024
Reported:	12/03/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: TT 3 @ 4' (H247220-12)

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	11/28/2024	ND	2.11	105	2.00	2.26		
Toluene*	<0.050	0.050	11/28/2024	ND	2.17	108	2.00	1.97		
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.14	107	2.00	2.01		
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.34	106	6.00	1.55		
Total BTEX	<0.300	0.300	11/28/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	11/27/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	195	97.3	200	3.11		
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	198	98.9	200	3.00		
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND						

Surrogate: 1-Chlorooctane 89.0 % 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:	11/25/2024	Sampling Date:	11/22/2024
Reported:	12/03/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: TT 3 @ 6' (H247220-13)

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	11/28/2024	ND	2.11	105	2.00	2.26	
Toluene*	<0.050	0.050	11/28/2024	ND	2.17	108	2.00	1.97	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.14	107	2.00	2.01	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.34	106	6.00	1.55	
Total BTEX	<0.300	0.300	11/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	2200	16.0	11/27/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	195	97.3	200	3.11	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	198	98.9	200	3.00	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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Analytical Results For:

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

Received:	11/25/2024	Sampling Date:	11/22/2024
Reported:	12/03/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: TT 3 @ 8' (H247220-14)

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	11/28/2024	ND	2.11	105	2.00	2.26	
Toluene*	<0.050	0.050	11/28/2024	ND	2.17	108	2.00	1.97	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.14	107	2.00	2.01	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.34	106	6.00	1.55	
Total BTEX	<0.300	0.300	11/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	704	16.0	11/27/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	195	97.3	200	3.11	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	198	98.9	200	3.00	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 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:	11/25/2024	Sampling Date:	11/22/2024
Reported:	12/03/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: TT 3 @ 10' (H247220-15)

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	11/28/2024	ND	2.11	105	2.00	2.26	
Toluene*	<0.050	0.050	11/28/2024	ND	2.17	108	2.00	1.97	
Ethylbenzene*	<0.050	0.050	11/28/2024	ND	2.14	107	2.00	2.01	
Total Xylenes*	<0.150	0.150	11/28/2024	ND	6.34	106	6.00	1.55	
Total BTEX	<0.300	0.300	11/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	208	16.0	11/27/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	195	97.3	200	3.11	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	198	98.9	200	3.00	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental & Safety Solutions, Inc.
Project Manager: Lance Crenshaw
Address: 2617 West Marland
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 21446 Project Owner: Mewbourne
Project Name: Archduke 19 W2AP Fed Com #1H
Project Location: 32.20955, -104.22248
Sampler Name: Aaron Rios
BILL TO: P.O. #: Company: Mewbourne Attn: Connor Walker Address: City: State: Zip: Phone #: Fax #:
ANALYSIS REQUEST: Chloride, TPH (8015M), BTEX (8021B)

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.

Relinquished By: [Signature] Date: 11-25-24 Time: 1446
Received By: [Signature] Date: Time:
Verbal Result: [X] Yes [] No Add'l Phone #:
All Results are emailed. Please provide Email address: pm@etechnv.com
REMARKS:
Delivered By: (Circle One) Observed Temp. °C: -8.82 Sample Condition: Cool Intact [X] Yes [] No
Checked By: (Initials): AD
Turnaround Time: Standard [] Rush [X] Bacteria (only) Sample Condition: Cool Intact [X] Yes [] No Observed Temp. °C: Corrected Temp. °C: -9.42



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental & Safety Solutions, Inc.
Project Manager: Lance Crenshaw
Address: 2617 West Marland
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 21446 Project Owner: Mewbourne
Project Name: Archduke 19 W2AP Fed Com #1H
Project Location: 32.20955, -104.22248
Sampler Name: Aaron Rios
BILL TO: P.O. #: Company: Mewbourne Attn: Connor Walker Address: City: State: Zip: Phone #: Fax #:
ANALYSIS REQUEST: Chloride TPH (8015M) BTEX (8021B)

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.

Relinquished By: [Signature] Date: 11-25-24 Time: 11:00
Received By: [Signature] Date: [Blank] Time: [Blank]
Verbal Result: [X] Yes [] No Add'l Phone #:
All Results are emailed. Please provide Email address: pm@etechnv.com
REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C: -8.8 Corrected Temp. °C: -9.4
Sample Condition Cool Intact [X] Yes [] No [] Yes [] No
CHECKED BY: (Initials) AD
Turnaround Time: Standard [] Rush [X]
Bacteria (only) Sample Condition Cool Intact [] Yes [] No [] Yes [] No Observed Temp. °C Corrected Temp. °C



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

December 26, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ARCHDUKE 19 W2AP FED COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 12/18/24 15:01.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/18/2024	Sampling Date:	12/17/2024
Reported:	12/26/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 1 @ 1' (H247658-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2024	ND	1.87	93.3	2.00	8.06	
Toluene*	<0.050	0.050	12/19/2024	ND	1.91	95.7	2.00	6.20	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.94	96.9	2.00	4.95	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	5.84	97.4	6.00	4.70	
Total BTEX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/19/2024	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	12/19/2024	ND	199	99.4	200	0.375	
DRO >C10-C28*	<10.0	10.0	12/19/2024	ND	194	97.0	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	12/19/2024	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 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:	12/18/2024	Sampling Date:	12/17/2024
Reported:	12/26/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 2 @ 1' (H247658-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/19/2024	ND	1.87	93.3	2.00	8.06		
Toluene*	<0.050	0.050	12/19/2024	ND	1.91	95.7	2.00	6.20		
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.94	96.9	2.00	4.95		
Total Xylenes*	<0.150	0.150	12/19/2024	ND	5.84	97.4	6.00	4.70		
Total BTEX	<0.300	0.300	12/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	12/19/2024	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	12/19/2024	ND	199	99.4	200	0.375		
DRO >C10-C28*	<10.0	10.0	12/19/2024	ND	194	97.0	200	2.97		
EXT DRO >C28-C36	<10.0	10.0	12/19/2024	ND						

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/18/2024	Sampling Date:	12/17/2024
Reported:	12/26/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 3 @ 8' (H247658-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/19/2024	ND	1.87	93.3	2.00	8.06		
Toluene*	<0.050	0.050	12/19/2024	ND	1.91	95.7	2.00	6.20		
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.94	96.9	2.00	4.95		
Total Xylenes*	<0.150	0.150	12/19/2024	ND	5.84	97.4	6.00	4.70		
Total BTEX	<0.300	0.300	12/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	12/19/2024	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	12/19/2024	ND	199	99.4	200	0.375		
DRO >C10-C28*	<10.0	10.0	12/19/2024	ND	194	97.0	200	2.97		
EXT DRO >C28-C36	<10.0	10.0	12/19/2024	ND						

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/18/2024	Sampling Date:	12/17/2024
Reported:	12/26/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 4 @ 4' (H247658-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/19/2024	ND	1.87	93.3	2.00	8.06		
Toluene*	<0.050	0.050	12/19/2024	ND	1.91	95.7	2.00	6.20		
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.94	96.9	2.00	4.95		
Total Xylenes*	<0.150	0.150	12/19/2024	ND	5.84	97.4	6.00	4.70		
Total BTEX	<0.300	0.300	12/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	12/19/2024	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	12/19/2024	ND	199	99.4	200	0.375		
DRO >C10-C28*	<10.0	10.0	12/19/2024	ND	194	97.0	200	2.97		
EXT DRO >C28-C36	<10.0	10.0	12/19/2024	ND						

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/18/2024	Sampling Date:	12/17/2024
Reported:	12/26/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 5 @ 2' (H247658-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2024	ND	1.87	93.3	2.00	8.06	
Toluene*	<0.050	0.050	12/19/2024	ND	1.91	95.7	2.00	6.20	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.94	96.9	2.00	4.95	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	5.84	97.4	6.00	4.70	
Total BTEX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/19/2024	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	12/19/2024	ND	199	99.4	200	0.375	
DRO >C10-C28*	<10.0	10.0	12/19/2024	ND	194	97.0	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	12/19/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 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:	12/18/2024	Sampling Date:	12/17/2024
Reported:	12/26/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 6 @ 5' (H247658-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2024	ND	1.87	93.3	2.00	8.06	
Toluene*	<0.050	0.050	12/19/2024	ND	1.91	95.7	2.00	6.20	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.94	96.9	2.00	4.95	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	5.84	97.4	6.00	4.70	
Total BTEX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/19/2024	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	12/19/2024	ND	199	99.4	200	0.375	
DRO >C10-C28*	<10.0	10.0	12/19/2024	ND	194	97.0	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	12/19/2024	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 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:	12/18/2024	Sampling Date:	12/17/2024
Reported:	12/26/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 7 @ 5' (H247658-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/19/2024	ND	1.87	93.3	2.00	8.06		
Toluene*	<0.050	0.050	12/19/2024	ND	1.91	95.7	2.00	6.20		
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.94	96.9	2.00	4.95		
Total Xylenes*	<0.150	0.150	12/19/2024	ND	5.84	97.4	6.00	4.70		
Total BTEX	<0.300	0.300	12/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/19/2024	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	12/19/2024	ND	199	99.4	200	0.375		
DRO >C10-C28*	<10.0	10.0	12/19/2024	ND	194	97.0	200	2.97		
EXT DRO >C28-C36	<10.0	10.0	12/19/2024	ND						

Surrogate: 1-Chlorooctane 99.4 % 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:	12/18/2024	Sampling Date:	12/17/2024
Reported:	12/26/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 8 @ 5' (H247658-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2024	ND	1.87	93.3	2.00	8.06	
Toluene*	<0.050	0.050	12/19/2024	ND	1.91	95.7	2.00	6.20	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.94	96.9	2.00	4.95	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	5.84	97.4	6.00	4.70	
Total BTEX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	12/19/2024	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	12/19/2024	ND	199	99.4	200	0.375	
DRO >C10-C28*	<10.0	10.0	12/19/2024	ND	194	97.0	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	12/19/2024	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 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:	12/18/2024	Sampling Date:	12/17/2024
Reported:	12/26/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 9 @ 4' (H247658-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/19/2024	ND	1.87	93.3	2.00	8.06		
Toluene*	<0.050	0.050	12/19/2024	ND	1.91	95.7	2.00	6.20		
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.94	96.9	2.00	4.95		
Total Xylenes*	<0.150	0.150	12/19/2024	ND	5.84	97.4	6.00	4.70		
Total BTEX	<0.300	0.300	12/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	12/19/2024	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	12/19/2024	ND	199	99.4	200	0.375		
DRO >C10-C28*	<10.0	10.0	12/19/2024	ND	194	97.0	200	2.97		
EXT DRO >C28-C36	<10.0	10.0	12/19/2024	ND						

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/18/2024	Sampling Date:	12/17/2024
Reported:	12/26/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 10 @ 4' (H247658-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2024	ND	1.87	93.3	2.00	8.06	
Toluene*	<0.050	0.050	12/19/2024	ND	1.91	95.7	2.00	6.20	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.94	96.9	2.00	4.95	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	5.84	97.4	6.00	4.70	
Total BTEX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/19/2024	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	12/19/2024	ND	199	99.4	200	0.375	
DRO >C10-C28*	<10.0	10.0	12/19/2024	ND	194	97.0	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	12/19/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/18/2024	Sampling Date:	12/17/2024
Reported:	12/26/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 11 @ 4' (H247658-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2024	ND	1.87	93.3	2.00	8.06	
Toluene*	<0.050	0.050	12/19/2024	ND	1.91	95.7	2.00	6.20	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.94	96.9	2.00	4.95	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	5.84	97.4	6.00	4.70	
Total BTEX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/19/2024	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	12/19/2024	ND	199	99.4	200	0.375	
DRO >C10-C28*	<10.0	10.0	12/19/2024	ND	194	97.0	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	12/19/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
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 2617 W MARLAND
 HOBBS NM, 88240
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Received:	12/18/2024	Sampling Date:	12/17/2024
Reported:	12/26/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 12 @ 5' (H247658-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2024	ND	1.87	93.3	2.00	8.06	
Toluene*	<0.050	0.050	12/19/2024	ND	1.91	95.7	2.00	6.20	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.94	96.9	2.00	4.95	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	5.84	97.4	6.00	4.70	
Total BTEX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/19/2024	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	12/19/2024	ND	199	99.4	200	0.375	
DRO >C10-C28*	<10.0	10.0	12/19/2024	ND	194	97.0	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	12/19/2024	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Analytical Results For:

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

Received:	12/18/2024	Sampling Date:	12/17/2024
Reported:	12/26/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 13 @ 6' (H247658-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2024	ND	1.87	93.3	2.00	8.06	
Toluene*	<0.050	0.050	12/19/2024	ND	1.91	95.7	2.00	6.20	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.94	96.9	2.00	4.95	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	5.84	97.4	6.00	4.70	
Total BTEX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	12/19/2024	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	12/19/2024	ND	199	99.4	200	0.375	
DRO >C10-C28*	<10.0	10.0	12/19/2024	ND	194	97.0	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	12/19/2024	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 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:	12/18/2024	Sampling Date:	12/17/2024
Reported:	12/26/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 14 @ 4' (H247658-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2024	ND	1.87	93.3	2.00	8.06	
Toluene*	<0.050	0.050	12/19/2024	ND	1.91	95.7	2.00	6.20	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.94	96.9	2.00	4.95	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	5.84	97.4	6.00	4.70	
Total BTEX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	12/19/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2024	ND	199	99.4	200	0.375	
DRO >C10-C28*	<10.0	10.0	12/19/2024	ND	194	97.0	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	12/19/2024	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 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:	12/18/2024	Sampling Date:	12/17/2024
Reported:	12/26/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: SW 1 (H247658-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2024	ND	1.87	93.3	2.00	8.06	
Toluene*	<0.050	0.050	12/19/2024	ND	1.91	95.7	2.00	6.20	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.94	96.9	2.00	4.95	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	5.84	97.4	6.00	4.70	
Total BTEX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	12/19/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2024	ND	199	99.4	200	0.375	
DRO >C10-C28*	<10.0	10.0	12/19/2024	ND	194	97.0	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	12/19/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 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:	12/18/2024	Sampling Date:	12/17/2024
Reported:	12/26/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: SW 2 (H247658-16)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/19/2024	ND	1.87	93.3	2.00	8.06		
Toluene*	<0.050	0.050	12/19/2024	ND	1.91	95.7	2.00	6.20		
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.94	96.9	2.00	4.95		
Total Xylenes*	<0.150	0.150	12/19/2024	ND	5.84	97.4	6.00	4.70		
Total BTEX	<0.300	0.300	12/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/19/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/19/2024	ND	199	99.4	200	0.375		
DRO >C10-C28*	<10.0	10.0	12/19/2024	ND	194	97.0	200	2.97		
EXT DRO >C28-C36	<10.0	10.0	12/19/2024	ND						

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech		BILL TO				ANALYSIS REQUEST																					
Project Manager: Lance Crenshaw		P.O. #:				Chloride	TPH (8015M)	BTEX (8021B)																			
Address:		Company: Mewbourne																									
City: State: NM Zip:		Attn: Connor Walker																									
Phone #: Fax #:		Address:																									
Project #: Project Owner:		City:																									
Project Name: Archduke 19 W2AP		State: Zip:																									
Project Location:		Phone #:																									
Sampler Name: Aaron Rios		Fax #:																									
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME													
H247658																											
11	FI 11 @ 4'	c	1			x					x		12/17/24		x	x	x										
12	FI 12 @ 5'	c	1			x					x		12/17/24		x	x	x										
13	FI 13 @ 6'	c	1			x					x		12/17/24		x	x	x										
14	FI 14 @ 4'	c	1			x					x		12/17/24		x	x	x										
15	SW1	c	1			x					x		12/17/24		x	x	x										
16	SW2	c	1			x					x		12/17/24		x	x	x										
<p><small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small></p>																											
Relinquished By: <i>[Signature]</i>		Date: 12-18-24	Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																				
Relinquished By:		Date:	Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																				
Delivered By: (Circle One) 1.9- / CO.0-		Sample Condition Cool Intact		CHECKED BY: (Initials) <i>[Signature]</i>		REMARKS:																					
Sampler - UPS - Bus - Other: 1.3- / #140		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Please send results to pm@etechenv.com																					



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

December 30, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ARCHDUKE 19 W2AP FED COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 12/20/24 12:09.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/20/2024	Sampling Date:	12/18/2024
Reported:	12/30/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 15 @ 1' (H247733-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2024	ND	2.08	104	2.00	0.0663	
Toluene*	<0.050	0.050	12/26/2024	ND	2.09	104	2.00	0.0474	
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	2.00	100	2.00	0.151	
Total Xylenes*	<0.150	0.150	12/26/2024	ND	6.40	107	6.00	0.539	
Total BTEX	<0.300	0.300	12/26/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/27/2024	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	12/26/2024	ND	202	101	200	0.0906	
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	187	93.4	200	0.730	
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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



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

Analytical Results For:

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

Received:	12/20/2024	Sampling Date:	12/18/2024
Reported:	12/30/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 16 @ 2' (H247733-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2024	ND	2.08	104	2.00	0.0663	
Toluene*	<0.050	0.050	12/26/2024	ND	2.09	104	2.00	0.0474	
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	2.00	100	2.00	0.151	
Total Xylenes*	<0.150	0.150	12/26/2024	ND	6.40	107	6.00	0.539	
Total BTEX	<0.300	0.300	12/26/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/27/2024	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	12/26/2024	ND	219	110	200	0.494	
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	197	98.6	200	0.135	
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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



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

Analytical Results For:

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

Received:	12/20/2024	Sampling Date:	12/18/2024
Reported:	12/30/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 17 @ 2' (H247733-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.512	
Toluene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.597	
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	1.99	99.4	2.00	1.25	
Total Xylenes*	<0.150	0.150	12/26/2024	ND	5.91	98.5	6.00	0.609	
Total BTEX	<0.300	0.300	12/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/27/2024	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	12/26/2024	ND	219	110	200	0.494	
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	197	98.6	200	0.135	
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

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



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Analytical Results For:

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

Received:	12/20/2024	Sampling Date:	12/18/2024
Reported:	12/30/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 18 @ 2' (H247733-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.512	
Toluene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.597	
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	1.99	99.4	2.00	1.25	
Total Xylenes*	<0.150	0.150	12/26/2024	ND	5.91	98.5	6.00	0.609	
Total BTEX	<0.300	0.300	12/26/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/27/2024	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	12/26/2024	ND	219	110	200	0.494	
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	197	98.6	200	0.135	
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 49.1-148

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



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

Analytical Results For:

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

Received:	12/20/2024	Sampling Date:	12/18/2024
Reported:	12/30/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 19 @ 2' (H247733-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.512	
Toluene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.597	
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	1.99	99.4	2.00	1.25	
Total Xylenes*	<0.150	0.150	12/26/2024	ND	5.91	98.5	6.00	0.609	
Total BTEX	<0.300	0.300	12/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/27/2024	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	12/26/2024	ND	219	110	200	0.494	
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	197	98.6	200	0.135	
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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



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

Analytical Results For:

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

Received:	12/20/2024	Sampling Date:	12/18/2024
Reported:	12/30/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 20 @ 3' (H247733-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.512	
Toluene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.597	
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	1.99	99.4	2.00	1.25	
Total Xylenes*	<0.150	0.150	12/26/2024	ND	5.91	98.5	6.00	0.609	
Total BTEX	<0.300	0.300	12/26/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/27/2024	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	12/26/2024	ND	219	110	200	0.494	
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	197	98.6	200	0.135	
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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



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

Analytical Results For:

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

Received:	12/20/2024	Sampling Date:	12/18/2024
Reported:	12/30/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 21 @ 3' (H247733-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.512	
Toluene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.597	
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	1.99	99.4	2.00	1.25	
Total Xylenes*	<0.150	0.150	12/26/2024	ND	5.91	98.5	6.00	0.609	
Total BTEX	<0.300	0.300	12/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/27/2024	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	12/26/2024	ND	219	110	200	0.494	
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	197	98.6	200	0.135	
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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:	12/20/2024	Sampling Date:	12/18/2024
Reported:	12/30/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 22 @ 3' (H247733-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.512	
Toluene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.597	
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	1.99	99.4	2.00	1.25	
Total Xylenes*	<0.150	0.150	12/26/2024	ND	5.91	98.5	6.00	0.609	
Total BTEX	<0.300	0.300	12/26/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/27/2024	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	12/26/2024	ND	219	110	200	0.494	
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	197	98.6	200	0.135	
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Analytical Results For:

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

Received:	12/20/2024	Sampling Date:	12/18/2024
Reported:	12/30/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 23 @ 3' (H247733-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.512	
Toluene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.597	
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	1.99	99.4	2.00	1.25	
Total Xylenes*	<0.150	0.150	12/26/2024	ND	5.91	98.5	6.00	0.609	
Total BTEX	<0.300	0.300	12/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/27/2024	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	12/26/2024	ND	219	110	200	0.494	
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	197	98.6	200	0.135	
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 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: 12/20/2024
 Reported: 12/30/2024
 Project Name: ARCHDUKE 19 W2AP FED COM #1H
 Project Number: 21446
 Project Location: MEWBOURNE 32.20955,-104.22248

Sampling Date: 12/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 24 @ 3' (H247733-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.512	
Toluene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.597	
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	1.99	99.4	2.00	1.25	
Total Xylenes*	<0.150	0.150	12/26/2024	ND	5.91	98.5	6.00	0.609	
Total BTEX	<0.300	0.300	12/26/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/27/2024	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	12/26/2024	ND	219	110	200	0.494	
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	197	98.6	200	0.135	
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received:	12/20/2024	Sampling Date:	12/18/2024
Reported:	12/30/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 25 @ 3' (H247733-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.512	
Toluene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.597	
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	1.99	99.4	2.00	1.25	
Total Xylenes*	<0.150	0.150	12/26/2024	ND	5.91	98.5	6.00	0.609	
Total BTEX	<0.300	0.300	12/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	12/27/2024	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	12/26/2024	ND	219	110	200	0.494	
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	197	98.6	200	0.135	
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND					

Surrogate: 1-Chlorooctane 112 % 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:	12/20/2024	Sampling Date:	12/18/2024
Reported:	12/30/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 26 @ 3' (H247733-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.512	
Toluene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.597	
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	1.99	99.4	2.00	1.25	
Total Xylenes*	<0.150	0.150	12/26/2024	ND	5.91	98.5	6.00	0.609	
Total BTEX	<0.300	0.300	12/26/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/27/2024	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	12/26/2024	ND	219	110	200	0.494	
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	197	98.6	200	0.135	
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND					

Surrogate: 1-Chlorooctane 116 % 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: 12/20/2024
 Reported: 12/30/2024
 Project Name: ARCHDUKE 19 W2AP FED COM #1H
 Project Number: 21446
 Project Location: MEWBOURNE 32.20955,-104.22248

Sampling Date: 12/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 27 @ 3' (H247733-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.512	
Toluene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.597	
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	1.99	99.4	2.00	1.25	
Total Xylenes*	<0.150	0.150	12/26/2024	ND	5.91	98.5	6.00	0.609	
Total BTEX	<0.300	0.300	12/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/27/2024	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	12/26/2024	ND	219	110	200	0.494	
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	197	98.6	200	0.135	
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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



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Analytical Results For:

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

Received:	12/20/2024	Sampling Date:	12/18/2024
Reported:	12/30/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 28 @ 2' (H247733-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.512	
Toluene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.597	
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	1.99	99.4	2.00	1.25	
Total Xylenes*	<0.150	0.150	12/26/2024	ND	5.91	98.5	6.00	0.609	
Total BTEX	<0.300	0.300	12/26/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/27/2024	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	12/26/2024	ND	219	110	200	0.494	
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	197	98.6	200	0.135	
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 49.1-148

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



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/30/2024
 Project Name: ARCHDUKE 19 W2AP FED COM #1H
 Project Number: 21446
 Project Location: MEWBOURNE 32.20955,-104.22248

Sampling Date: 12/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 29 @ 2' (H247733-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.512	
Toluene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.597	
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	1.99	99.4	2.00	1.25	
Total Xylenes*	<0.150	0.150	12/26/2024	ND	5.91	98.5	6.00	0.609	
Total BTEX	<0.300	0.300	12/26/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/27/2024	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	12/26/2024	ND	219	110	200	0.494	
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	197	98.6	200	0.135	
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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



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Analytical Results For:

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

Received:	12/20/2024	Sampling Date:	12/18/2024
Reported:	12/30/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 30 @ 2' (H247733-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.512	
Toluene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.597	
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	1.99	99.4	2.00	1.25	
Total Xylenes*	<0.150	0.150	12/26/2024	ND	5.91	98.5	6.00	0.609	
Total BTEX	<0.300	0.300	12/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/27/2024	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	12/26/2024	ND	219	110	200	0.494	
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	197	98.6	200	0.135	
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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:	12/20/2024	Sampling Date:	12/18/2024
Reported:	12/30/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 31 @ 4' (H247733-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.512	
Toluene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.597	
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	1.99	99.4	2.00	1.25	
Total Xylenes*	<0.150	0.150	12/26/2024	ND	5.91	98.5	6.00	0.609	
Total BTEX	<0.300	0.300	12/26/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	12/27/2024	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	12/26/2024	ND	219	110	200	0.494	
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	197	98.6	200	0.135	
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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



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Analytical Results For:

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

Received:	12/20/2024	Sampling Date:	12/18/2024
Reported:	12/30/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 32 @ 2' (H247733-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.512	
Toluene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.597	
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	1.99	99.4	2.00	1.25	
Total Xylenes*	<0.150	0.150	12/26/2024	ND	5.91	98.5	6.00	0.609	
Total BTEX	<0.300	0.300	12/26/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/27/2024	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	12/26/2024	ND	219	110	200	0.494	
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	197	98.6	200	0.135	
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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



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

Analytical Results For:

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

Received:	12/20/2024	Sampling Date:	12/18/2024
Reported:	12/30/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 33 @ 2' (H247733-19)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.512	
Toluene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.597	
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	1.99	99.4	2.00	1.25	
Total Xylenes*	<0.150	0.150	12/26/2024	ND	5.91	98.5	6.00	0.609	
Total BTEX	<0.300	0.300	12/26/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/26/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/26/2024	ND	219	110	200	0.494	
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	197	98.6	200	0.135	
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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



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

Analytical Results For:

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

Received:	12/20/2024	Sampling Date:	12/18/2024
Reported:	12/30/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 34 @ 2' (H247733-20)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.512	
Toluene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.597	
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	1.99	99.4	2.00	1.25	
Total Xylenes*	<0.150	0.150	12/26/2024	ND	5.91	98.5	6.00	0.609	
Total BTEX	<0.300	0.300	12/26/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	12/27/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/26/2024	ND	219	110	200	0.494	
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	197	98.6	200	0.135	
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 49.1-148

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Analytical Results For:

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

Received:	12/20/2024	Sampling Date:	12/18/2024
Reported:	12/30/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 35 @ 4' (H247733-21)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.512	
Toluene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.597	
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	1.99	99.4	2.00	1.25	
Total Xylenes*	<0.150	0.150	12/26/2024	ND	5.91	98.5	6.00	0.609	
Total BTEX	<0.300	0.300	12/26/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	12/27/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/26/2024	ND	219	110	200	0.494	
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	197	98.6	200	0.135	
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND					

Surrogate: 1-Chlorooctane 101 % 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:	12/20/2024	Sampling Date:	12/18/2024
Reported:	12/30/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 36 @ 3' (H247733-22)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.512	
Toluene*	<0.050	0.050	12/26/2024	ND	1.96	98.0	2.00	0.597	
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	1.99	99.4	2.00	1.25	
Total Xylenes*	<0.150	0.150	12/26/2024	ND	5.91	98.5	6.00	0.609	
Total BTEX	<0.300	0.300	12/26/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/27/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/26/2024	ND	183	91.5	200	0.157	
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	185	92.5	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 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:	12/20/2024	Sampling Date:	12/18/2024
Reported:	12/30/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 39 @ 2' (H247733-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2024	ND	2.20	110	2.00	8.79	
Toluene*	<0.050	0.050	12/26/2024	ND	2.15	107	2.00	9.29	
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	2.17	109	2.00	9.28	
Total Xylenes*	<0.150	0.150	12/26/2024	ND	6.55	109	6.00	9.02	
Total BTEX	<0.300	0.300	12/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/27/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/26/2024	ND	183	91.5	200	0.157	
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	185	92.5	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/30/2024
 Project Name: ARCHDUKE 19 W2AP FED COM #1H
 Project Number: 21446
 Project Location: MEWBOURNE 32.20955,-104.22248

Sampling Date: 12/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 1 (H247733-24)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/26/2024	ND	2.20	110	2.00	8.79		
Toluene*	<0.050	0.050	12/26/2024	ND	2.15	107	2.00	9.29		
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	2.17	109	2.00	9.28		
Total Xylenes*	<0.150	0.150	12/26/2024	ND	6.55	109	6.00	9.02		
Total BTEX	<0.300	0.300	12/26/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	12/27/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/26/2024	ND	183	91.5	200	0.157		
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	185	92.5	200	1.21		
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND						

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/30/2024
 Project Name: ARCHDUKE 19 W2AP FED COM #1H
 Project Number: 21446
 Project Location: MEWBOURNE 32.20955,-104.22248

Sampling Date: 12/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 2 (H247733-25)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/26/2024	ND	2.20	110	2.00	8.79		
Toluene*	<0.050	0.050	12/26/2024	ND	2.15	107	2.00	9.29		
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	2.17	109	2.00	9.28		
Total Xylenes*	<0.150	0.150	12/26/2024	ND	6.55	109	6.00	9.02		
Total BTEX	<0.300	0.300	12/26/2024	ND						

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

Chloride, SM4500CI-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	12/27/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/26/2024	ND	183	91.5	200	0.157		
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	185	92.5	200	1.21		
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND						

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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



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

Analytical Results For:

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

Received:	12/20/2024	Sampling Date:	12/18/2024
Reported:	12/30/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: WW 3 (H247733-26)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/26/2024	ND	2.20	110	2.00	8.79		
Toluene*	<0.050	0.050	12/26/2024	ND	2.15	107	2.00	9.29		
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	2.17	109	2.00	9.28		
Total Xylenes*	<0.150	0.150	12/26/2024	ND	6.55	109	6.00	9.02		
Total BTEX	<0.300	0.300	12/26/2024	ND						

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

Chloride, SM4500CI-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	12/27/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/26/2024	ND	183	91.5	200	0.157		
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	185	92.5	200	1.21		
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/30/2024
 Project Name: ARCHDUKE 19 W2AP FED COM #1H
 Project Number: 21446
 Project Location: MEWBOURNE 32.20955,-104.22248

Sampling Date: 12/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 3 (H247733-27)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/26/2024	ND	2.20	110	2.00	8.79		
Toluene*	<0.050	0.050	12/26/2024	ND	2.15	107	2.00	9.29		
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	2.17	109	2.00	9.28		
Total Xylenes*	<0.150	0.150	12/26/2024	ND	6.55	109	6.00	9.02		
Total BTEX	<0.300	0.300	12/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	176	16.0	12/27/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/26/2024	ND	183	91.5	200	0.157		
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	185	92.5	200	1.21		
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND						

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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



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

Analytical Results For:

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

Received:	12/20/2024	Sampling Date:	12/18/2024
Reported:	12/30/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: SW 4 (H247733-28)

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	12/26/2024	ND	2.20	110	2.00	8.79		
Toluene*	<0.050	0.050	12/26/2024	ND	2.15	107	2.00	9.29		
Ethylbenzene*	<0.050	0.050	12/26/2024	ND	2.17	109	2.00	9.28		
Total Xylenes*	<0.150	0.150	12/26/2024	ND	6.55	109	6.00	9.02		
Total BTEX	<0.300	0.300	12/26/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	12/27/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/26/2024	ND	183	91.5	200	0.157		
DRO >C10-C28*	<10.0	10.0	12/26/2024	ND	185	92.5	200	1.21		
EXT DRO >C28-C36	<10.0	10.0	12/26/2024	ND						

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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



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

Notes and Definitions

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

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etch		BILL TO				ANALYSIS REQUEST																					
Project Manager: Lance Crenshaw		P.O. #:				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>																					
Address:		Company: Mewbourne																									
City: State: NM Zip:		Attn: Connor Walker																									
Phone #: Fax #:		Address:																									
Project #: Project Owner:		City:																									
Project Name: Archduke 19 W2AP		State: Zip:																									
Project Location:		Phone #:																									
Sampler Name: Aaron Rios		Fax #:																									
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
H247733																											
1	FI 15 @ 1'	c	1			x				x			12/18/24		x	x	x										
2	FI 16 @ 2'	c	1			x				x			12/18/24		x	x	x										
3	FI 17 @ 2'	c	1			x				x			12/18/24		x	x	x										
4	FI 18 @ 2'	c	1			x				x			12/18/24		x	x	x										
5	FI 19 @ 2'	c	1			x				x			12/18/24		x	x	x										
6	FI 20 @ 3'	c	1			x				x			12/18/24		x	x	x										
7	FI 21 @ 3'	c	1			x				x			12/18/24		x	x	x										
8	FI 22 @ 3'	c	1			x				x			12/18/24		x	x	x										
9	FI 23 @ 3'	c	1			x				x			12/18/24		x	x	x										
10	FI 24 @ 3'	c	1			x				x			12/18/24		x	x	x										
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																											
Relinquished By:		Date: 12-20-24		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		REMARKS:																	
Relinquished By:		Date:		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																			
		Time:																									
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -7-76) C-240: -8-3: #140				Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No				CHECKED BY: (Initials) 				Please email results to pm@etchenv.com															



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech		BILL TO										ANALYSIS REQUEST														
Project Manager: Lance Crenshaw		P.O. #:										Chloride TPH (8015M) BTEX (8021B)														
Address:		Company Mewbourne																								
City: State: NM Zip:		Attn: Connor Walker																								
Phone #: Fax #:		Address:																								
Project #: Project Owner:		City:																								
Project Name: Archduke 19 W2AP		State: Zip:																								
Project Location:		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											
	21	FI 35 @ 4'	c	1			x							12/18/24		x	x	x								
	22	FI 36 @ 3'	c	1			x							12/18/24		x	x	x								
	23	FI 39 @ 2'	c	1			x							12/18/24		x	x	x								
	24	WW1	c	1			x							12/18/24		x	x	x								
	25	WW2	c	1			x							12/18/24		x	x	x								
	26	WW3	c	1			x							12/18/24		x	x	x								
	27	SW3	c	1			x							12/18/24		x	x	x								
	28	SW4	c	1			x							12/18/24		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: 12-20-24		Received By: S. Rodriguez		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																		
		Time: 12:09				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																		
Relinquished By:		Date:		Received By:		REMARKS:																				
		Time:				Please email results to pm@etechenv.com																				
Delivered By: (Circle One)		-7-7-24		0-0-0:		Sample Condition		CHECKED BY:																		
Sampler - UPS - Bus - Other:		-8-3-#140				Cool Intact		(Initials)																		
						<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		SR																		
						<input type="checkbox"/> No <input type="checkbox"/> No																				



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

December 31, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ARCHDUKE 19 W2AP FED COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 12/23/24 11:54.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 37 @ 3' (H247752-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	2.10	105	2.00	1.75	
Toluene*	<0.050	0.050	12/27/2024	ND	2.01	101	2.00	0.0279	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	2.08	104	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	6.25	104	6.00	2.04	
Total BTEX	<0.300	0.300	12/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	464	16.0	12/27/2024	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	12/27/2024	ND	195	97.4	200	0.174	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	190	95.0	200	1.27	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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



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Analytical Results For:

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

Received:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 38 @ 3' (H247752-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	2.10	105	2.00	1.75	
Toluene*	<0.050	0.050	12/27/2024	ND	2.01	101	2.00	0.0279	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	2.08	104	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	6.25	104	6.00	2.04	
Total BTEX	<0.300	0.300	12/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	12/27/2024	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	12/27/2024	ND	195	97.4	200	0.174	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	190	95.0	200	1.27	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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



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Analytical Results For:

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

Received:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 47 @ 1' (H247752-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	2.10	105	2.00	1.75	
Toluene*	<0.050	0.050	12/27/2024	ND	2.01	101	2.00	0.0279	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	2.08	104	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	6.25	104	6.00	2.04	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30.0	16.0	12/27/2024	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	12/27/2024	ND	195	97.4	200	0.174	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	190	95.0	200	1.27	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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Analytical Results For:

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

Received:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 40 @ 1' (H247752-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	2.10	105	2.00	1.75	
Toluene*	<0.050	0.050	12/27/2024	ND	2.01	101	2.00	0.0279	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	2.08	104	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	6.25	104	6.00	2.04	
Total BTEX	<0.300	0.300	12/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	112	16.0	12/27/2024	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	12/27/2024	ND	195	97.4	200	0.174	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	190	95.0	200	1.27	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 41 @ 1' (H247752-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	2.10	105	2.00	1.75	
Toluene*	<0.050	0.050	12/27/2024	ND	2.01	101	2.00	0.0279	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	2.08	104	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	6.25	104	6.00	2.04	
Total BTEX	<0.300	0.300	12/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	528	16.0	12/27/2024	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	12/27/2024	ND	195	97.4	200	0.174	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	190	95.0	200	1.27	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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



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

Analytical Results For:

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

Received:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 42 @ 1' (H247752-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	2.10	105	2.00	1.75	
Toluene*	<0.050	0.050	12/27/2024	ND	2.01	101	2.00	0.0279	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	2.08	104	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	6.25	104	6.00	2.04	
Total BTEX	<0.300	0.300	12/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	288	16.0	12/27/2024	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	12/27/2024	ND	195	97.4	200	0.174	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	190	95.0	200	1.27	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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



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Analytical Results For:

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

Received:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 43 @ 1' (H247752-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	2.10	105	2.00	1.75	
Toluene*	<0.050	0.050	12/27/2024	ND	2.01	101	2.00	0.0279	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	2.08	104	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	6.25	104	6.00	2.04	
Total BTEX	<0.300	0.300	12/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	496	16.0	12/27/2024	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	12/27/2024	ND	195	97.4	200	0.174	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	190	95.0	200	1.27	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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



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Analytical Results For:

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

Received:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 44 @ 1' (H247752-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	2.10	105	2.00	1.75	
Toluene*	<0.050	0.050	12/27/2024	ND	2.01	101	2.00	0.0279	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	2.08	104	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	6.25	104	6.00	2.04	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	12/27/2024	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	12/27/2024	ND	195	97.4	200	0.174	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	190	95.0	200	1.27	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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



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Analytical Results For:

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

Received:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 45 @ 1' (H247752-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	2.10	105	2.00	1.75	
Toluene*	<0.050	0.050	12/27/2024	ND	2.01	101	2.00	0.0279	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	2.08	104	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	6.25	104	6.00	2.04	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	12/27/2024	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	12/27/2024	ND	195	97.4	200	0.174	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	190	95.0	200	1.27	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 117 % 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:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 46 @ 1' (H247752-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	2.10	105	2.00	1.75	
Toluene*	<0.050	0.050	12/27/2024	ND	2.01	101	2.00	0.0279	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	2.08	104	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	6.25	104	6.00	2.04	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/27/2024	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	12/27/2024	ND	195	97.4	200	0.174	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	190	95.0	200	1.27	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 48 @ 1' (H247752-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	2.10	105	2.00	1.75	
Toluene*	<0.050	0.050	12/27/2024	ND	2.01	101	2.00	0.0279	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	2.08	104	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	6.25	104	6.00	2.04	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/27/2024	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	12/27/2024	ND	195	97.4	200	0.174	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	190	95.0	200	1.27	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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Received:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 49 @ 1' (H247752-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	2.10	105	2.00	1.75	
Toluene*	<0.050	0.050	12/27/2024	ND	2.01	101	2.00	0.0279	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	2.08	104	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	6.25	104	6.00	2.04	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/27/2024	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	12/27/2024	ND	195	97.4	200	0.174	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	190	95.0	200	1.27	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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Received:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 50 @ 1' (H247752-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	2.10	105	2.00	1.75	
Toluene*	<0.050	0.050	12/27/2024	ND	2.01	101	2.00	0.0279	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	2.08	104	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	6.25	104	6.00	2.04	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/27/2024	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	12/27/2024	ND	195	97.4	200	0.174	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	190	95.0	200	1.27	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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 HOBBS NM, 88240
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Received:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 51 @ 1' (H247752-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	2.10	105	2.00	1.75	
Toluene*	<0.050	0.050	12/27/2024	ND	2.01	101	2.00	0.0279	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	2.08	104	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	6.25	104	6.00	2.04	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/27/2024	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	12/27/2024	ND	195	97.4	200	0.174	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	190	95.0	200	1.27	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 52 @ 1' (H247752-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	2.10	105	2.00	1.75	
Toluene*	<0.050	0.050	12/27/2024	ND	2.01	101	2.00	0.0279	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	2.08	104	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	6.25	104	6.00	2.04	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	12/27/2024	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	12/27/2024	ND	195	97.4	200	0.174	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	190	95.0	200	1.27	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 53 @ 1' (H247752-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	2.10	105	2.00	1.75	
Toluene*	<0.050	0.050	12/27/2024	ND	2.01	101	2.00	0.0279	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	2.08	104	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	6.25	104	6.00	2.04	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/27/2024	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	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 55 @ 1' (H247752-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	2.10	105	2.00	1.75	
Toluene*	<0.050	0.050	12/27/2024	ND	2.01	101	2.00	0.0279	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	2.08	104	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	6.25	104	6.00	2.04	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/27/2024	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	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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



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

Analytical Results For:

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

Received:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 56 @ 1' (H247752-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	2.10	105	2.00	1.75	
Toluene*	<0.050	0.050	12/27/2024	ND	2.01	101	2.00	0.0279	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	2.08	104	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	6.25	104	6.00	2.04	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/27/2024	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	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

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

Received:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 57 @ 1' (H247752-19)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	2.10	105	2.00	1.75	
Toluene*	<0.050	0.050	12/27/2024	ND	2.01	101	2.00	0.0279	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	2.08	104	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	6.25	104	6.00	2.04	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	12/27/2024	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	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
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 2617 W MARLAND
 HOBBS NM, 88240
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Received:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 58 @ 1' (H247752-20)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	2.10	105	2.00	1.75	
Toluene*	<0.050	0.050	12/27/2024	ND	2.01	101	2.00	0.0279	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	2.08	104	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	6.25	104	6.00	2.04	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	12/27/2024	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	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 59 @ 3' (H247752-21)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/27/2024	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	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 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:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 60 @ 3' (H247752-22)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/27/2024	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	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 61 @ 1' (H247752-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/27/2024	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	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 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:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 62 @ 1' (H247752-24)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/27/2024	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	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 63 @ 1' (H247752-25)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	12/27/2024	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	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 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:	12/23/2024	Sampling Date:	12/20/2024
Reported:	12/31/2024	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: NW 1 (H247752-26)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/27/2024	ND	1.84	92.0	2.00	3.48		
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38		
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682		
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438		
Total BTEX	<0.300	0.300	12/27/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/27/2024	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	12/27/2024	ND	234	117	200	7.59		
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01		
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND						

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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



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

Notes and Definitions

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

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental
Project Manager: Lance Crenshaw
Address: 2617 W Marland Blvd
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 21446 Project Owner: Mewbourne Oil Company
Project Name: Archduke 19 W2AP Fed Com #1H
Project Location: GPS:(32.20955, -104.22248)
Sampler Name: Aaron Rios

Table with columns: Lab I.D., Sample I.D., (G)RAB OR (C)OMP., # CONTAINERS, MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV. (ACID/BASE, ICE/COOL, OTHER), SAMPLING (DATE, TIME), Chloride, TPH, BTEX 8021. Includes handwritten entries for samples FL 37 through FL 46.

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Relinquished By: [Signature] Date: 12/23 Time: 12:00pm
Received By: [Signature] Date: 12/23/24 Time: 11:54
Delivered By: (Circle One) T-02/C-02/S-02
Sampler - UPS - Bus - Other: -102/#140
Sample Condition: Cool Intact [Yes/No]
CHECKED BY: [Initials]
REMARKS: Email copy of COC and results to: PM@etechenv.com
sample ID corrected per customer spreadsheet 12-23-24

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476
FORM-006 R.2.0



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental
Project Manager: Lance Crenshaw
Address: 2617 W Marland Blvd
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 21446 Project Owner: Mewbourne Oil Company
Project Name: Archduke 19 W2AP Fed Com #1H
Project Location: GPS:(32.20955, -104.22248)
Sampler Name: Aaron Rios

Table with columns: Lab I.D., Sample I.D., (G)RAB OR (C)OMP., # CONTAINERS, MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV. (ACID/BASE, ICE / COOL, OTHER), SAMPLING (DATE, TIME), Chloride, TPH, BTEX 8021. Rows 11-20 contain sample data.

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Relinquished By: [Signature] Date: 12/23/24 Time: 12:00pm
Received By: [Signature] Date: 12/23/24 Time: 11:50am
Delivered By: (Circle One) -1.0c / Cool Intact
Sampler - UPS - Bus - Other: -1.0c / #140
Sample Condition: Cool Intact Yes/No
CHECKED BY: (Initials) AR

Phone Result: Yes No Add'l Phone #:
Fax Result: Yes No Add'l Fax #:
REMARKS: Email copy of COC and results to: PM@etechenv.com

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FORM-006 R 2.0



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental
Project Manager: Lance Crenshaw
Address: 2617 W Marland Blvd
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 21446 Project Owner: Mewbourne Oil Company
Project Name: Archduke 19 W2AP Fed Com #1H
Project Location: GPS:(32.20955, -104.22248)
Sampler Name: Aaron Rios

Table with columns: Lab I.D., Sample I.D., (G)RAB OR (C)OMP., # CONTAINERS, MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV. (ACID/BASE, ICE / COOL, OTHER), SAMPLING (DATE, TIME), Chloride, TPH, BTEX 8021. Includes handwritten entries for samples 21-26.

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Relinquished By: [Signature] Date: 12/23 Time: 12:00pm Received By: [Signature] Date: 12/23/24 Time: 11:54
Delivered By: (Circle One) -1.0L / C-0.0L
Sampler - UPS - Bus - Other: -1.0L / #140
Sample Condition: Cool Intact [Yes/No]
CHECKED BY: [Initials]
REMARKS: Email copy of COC and results to: PM@etechenv.com

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476
FORM-006 R 2.0



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

January 07, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ARCHDUKE 19 W2AP FED COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 12/31/24 14:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/31/2024	Sampling Date:	12/27/2024
Reported:	01/07/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 54 @ 2' (H247808-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	1.90	94.9	2.00	4.27	
Toluene*	<0.050	0.050	12/31/2024	ND	2.03	102	2.00	2.11	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	1.98	98.8	2.00	0.512	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	5.77	96.2	6.00	0.519	
Total BTEX	<0.300	0.300	12/31/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/02/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	192	96.0	200	0.811	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	201	100	200	0.0733	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/31/2024	Sampling Date:	12/27/2024
Reported:	01/07/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 64 @ 2' (H247808-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	1.90	94.9	2.00	4.27	
Toluene*	<0.050	0.050	12/31/2024	ND	2.03	102	2.00	2.11	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	1.98	98.8	2.00	0.512	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	5.77	96.2	6.00	0.519	
Total BTEX	<0.300	0.300	12/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	01/02/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	192	96.0	200	0.811	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	201	100	200	0.0733	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 143 % 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:	12/31/2024	Sampling Date:	12/27/2024
Reported:	01/07/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 65 @ 2' (H247808-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	1.90	94.9	2.00	4.27	
Toluene*	<0.050	0.050	12/31/2024	ND	2.03	102	2.00	2.11	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	1.98	98.8	2.00	0.512	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	5.77	96.2	6.00	0.519	
Total BTEX	<0.300	0.300	12/31/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	01/02/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	192	96.0	200	0.811	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	201	100	200	0.0733	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 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:	12/31/2024	Sampling Date:	12/27/2024
Reported:	01/07/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 66 @ 1' (H247808-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	1.90	94.9	2.00	4.27	
Toluene*	<0.050	0.050	12/31/2024	ND	2.03	102	2.00	2.11	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	1.98	98.8	2.00	0.512	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	5.77	96.2	6.00	0.519	
Total BTEX	<0.300	0.300	12/31/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	01/02/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	192	96.0	200	0.811	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	201	100	200	0.0733	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 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:	12/31/2024	Sampling Date:	12/27/2024
Reported:	01/07/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 67 @ 1' (H247808-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	1.90	94.9	2.00	4.27	
Toluene*	<0.050	0.050	12/31/2024	ND	2.03	102	2.00	2.11	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	1.98	98.8	2.00	0.512	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	5.77	96.2	6.00	0.519	
Total BTEX	<0.300	0.300	12/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	01/02/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	192	96.0	200	0.811	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	201	100	200	0.0733	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/31/2024	Sampling Date:	12/27/2024
Reported:	01/07/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 68 @ 1' (H247808-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	1.90	94.9	2.00	4.27	
Toluene*	<0.050	0.050	12/31/2024	ND	2.03	102	2.00	2.11	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	1.98	98.8	2.00	0.512	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	5.77	96.2	6.00	0.519	
Total BTEX	<0.300	0.300	12/31/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/02/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	192	96.0	200	0.811	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	201	100	200	0.0733	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 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:	12/31/2024	Sampling Date:	12/27/2024
Reported:	01/07/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 69 @ 1' (H247808-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	1.90	94.9	2.00	4.27	
Toluene*	<0.050	0.050	12/31/2024	ND	2.03	102	2.00	2.11	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	1.98	98.8	2.00	0.512	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	5.77	96.2	6.00	0.519	
Total BTEX	<0.300	0.300	12/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	01/02/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	192	96.0	200	0.811	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	201	100	200	0.0733	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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 2617 W MARLAND
 HOBBS NM, 88240
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Received:	12/31/2024	Sampling Date:	12/27/2024
Reported:	01/07/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 70 @ 1' (H247808-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	1.90	94.9	2.00	4.27	
Toluene*	<0.050	0.050	12/31/2024	ND	2.03	102	2.00	2.11	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	1.98	98.8	2.00	0.512	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	5.77	96.2	6.00	0.519	
Total BTEX	<0.300	0.300	12/31/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/02/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	192	96.0	200	0.811	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	201	100	200	0.0733	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Analytical Results For:

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Received:	12/31/2024	Sampling Date:	12/27/2024
Reported:	01/07/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 71 @ 1' (H247808-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	1.90	94.9	2.00	4.27	
Toluene*	<0.050	0.050	12/31/2024	ND	2.03	102	2.00	2.11	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	1.98	98.8	2.00	0.512	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	5.77	96.2	6.00	0.519	
Total BTEX	<0.300	0.300	12/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/02/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	192	96.0	200	0.811	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	201	100	200	0.0733	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 142 % 49.1-148

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Analytical Results For:

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Received:	12/31/2024	Sampling Date:	12/27/2024
Reported:	01/07/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 72 @ 1' (H247808-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	1.90	94.9	2.00	4.27	
Toluene*	<0.050	0.050	12/31/2024	ND	2.03	102	2.00	2.11	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	1.98	98.8	2.00	0.512	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	5.77	96.2	6.00	0.519	
Total BTEX	<0.300	0.300	12/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/02/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	192	96.0	200	0.811	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	201	100	200	0.0733	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
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Received:	12/31/2024	Sampling Date:	12/27/2024
Reported:	01/07/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 73 @ 1' (H247808-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	1.90	94.9	2.00	4.27	
Toluene*	<0.050	0.050	12/31/2024	ND	2.03	102	2.00	2.11	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	1.98	98.8	2.00	0.512	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	5.77	96.2	6.00	0.519	
Total BTEX	<0.300	0.300	12/31/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/02/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	192	96.0	200	0.811	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	201	100	200	0.0733	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 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:	12/31/2024	Sampling Date:	12/27/2024
Reported:	01/07/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 74 @ 1' (H247808-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	1.90	94.9	2.00	4.27	
Toluene*	<0.050	0.050	12/31/2024	ND	2.03	102	2.00	2.11	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	1.98	98.8	2.00	0.512	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	5.77	96.2	6.00	0.519	
Total BTEX	<0.300	0.300	12/31/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	01/02/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	192	96.0	200	0.811	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	201	100	200	0.0733	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 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:	12/31/2024	Sampling Date:	12/27/2024
Reported:	01/07/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 75 @ 1' (H247808-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	1.86	93.0	2.00	2.06	
Toluene*	<0.050	0.050	12/31/2024	ND	1.98	98.9	2.00	0.0927	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	6.41	107	6.00	0.440	
Total BTEX	<0.300	0.300	12/31/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	01/02/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	192	96.0	200	0.811	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	201	100	200	0.0733	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 143 % 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:	12/31/2024	Sampling Date:	12/27/2024
Reported:	01/07/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 76 @ 1' (H247808-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	1.86	93.0	2.00	2.06	
Toluene*	<0.050	0.050	12/31/2024	ND	1.98	98.9	2.00	0.0927	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	6.41	107	6.00	0.440	
Total BTEX	<0.300	0.300	12/31/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/02/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	192	96.0	200	0.811	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	201	100	200	0.0733	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 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:	12/31/2024	Sampling Date:	12/27/2024
Reported:	01/07/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 77 @ 1' (H247808-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	2.27	114	2.00	2.85	QR-03
Toluene*	<0.050	0.050	12/31/2024	ND	2.36	118	2.00	3.36	QR-03
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	2.42	121	2.00	3.44	QR-03
Total Xylenes*	<0.150	0.150	12/31/2024	ND	7.49	125	6.00	2.89	QR-03
Total BTEX	<0.300	0.300	12/31/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/02/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	192	96.0	200	0.811	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	201	100	200	0.0733	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 139 % 49.1-148

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/31/2024	Sampling Date:	12/27/2024
Reported:	01/07/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 78 @ 1' (H247808-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	2.27	114	2.00	2.85	
Toluene*	<0.050	0.050	12/31/2024	ND	2.36	118	2.00	3.36	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	2.42	121	2.00	3.44	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	7.49	125	6.00	2.89	
Total BTEX	<0.300	0.300	12/31/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/02/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	192	96.0	200	0.811	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	201	100	200	0.0733	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 49.1-148

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Analytical Results For:

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Received:	12/31/2024	Sampling Date:	12/27/2024
Reported:	01/07/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 79 @ 1' (H247808-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	2.27	114	2.00	2.85	
Toluene*	<0.050	0.050	12/31/2024	ND	2.36	118	2.00	3.36	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	2.42	121	2.00	3.44	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	7.49	125	6.00	2.89	
Total BTEX	<0.300	0.300	12/31/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/02/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/01/2025	ND	192	96.0	200	0.811	
DRO >C10-C28*	<10.0	10.0	01/01/2025	ND	201	100	200	0.0733	
EXT DRO >C28-C36	<10.0	10.0	01/01/2025	ND					

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 49.1-148

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Received:	12/31/2024	Sampling Date:	12/27/2024
Reported:	01/07/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 80 @ 1' (H247808-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	2.27	114	2.00	2.85	
Toluene*	<0.050	0.050	12/31/2024	ND	2.36	118	2.00	3.36	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	2.42	121	2.00	3.44	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	7.49	125	6.00	2.89	
Total BTEX	<0.300	0.300	12/31/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	01/02/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/01/2025	ND	192	96.0	200	0.811	
DRO >C10-C28*	<10.0	10.0	01/01/2025	ND	201	100	200	0.0733	
EXT DRO >C28-C36	<10.0	10.0	01/01/2025	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 49.1-148

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Received:	12/31/2024	Sampling Date:	12/27/2024
Reported:	01/07/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 81 @ 1' (H247808-19)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	2.27	114	2.00	2.85	
Toluene*	<0.050	0.050	12/31/2024	ND	2.36	118	2.00	3.36	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	2.42	121	2.00	3.44	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	7.49	125	6.00	2.89	
Total BTEX	<0.300	0.300	12/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	01/02/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/01/2025	ND	192	96.0	200	0.811	
DRO >C10-C28*	<10.0	10.0	01/01/2025	ND	201	100	200	0.0733	
EXT DRO >C28-C36	<10.0	10.0	01/01/2025	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 143 % 49.1-148

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 HOBBS NM, 88240
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Received:	12/31/2024	Sampling Date:	12/27/2024
Reported:	01/07/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 82 @ 1' (H247808-20)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	2.27	114	2.00	2.85	
Toluene*	<0.050	0.050	12/31/2024	ND	2.36	118	2.00	3.36	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	2.42	121	2.00	3.44	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	7.49	125	6.00	2.89	
Total BTEX	<0.300	0.300	12/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	01/02/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	228	114	200	5.82	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	225	112	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
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Received:	12/31/2024	Sampling Date:	12/27/2024
Reported:	01/07/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 83 @ 1' (H247808-21)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	2.27	114	2.00	2.85	
Toluene*	<0.050	0.050	12/31/2024	ND	2.36	118	2.00	3.36	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	2.42	121	2.00	3.44	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	7.49	125	6.00	2.89	
Total BTEX	<0.300	0.300	12/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	01/02/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	228	114	200	5.82	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	225	112	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Analytical Results For:

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Received:	12/31/2024	Sampling Date:	12/27/2024
Reported:	01/07/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 84 @ 1' (H247808-22)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	2.27	114	2.00	2.85	
Toluene*	<0.050	0.050	12/31/2024	ND	2.36	118	2.00	3.36	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	2.42	121	2.00	3.44	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	7.49	125	6.00	2.89	
Total BTEX	<0.300	0.300	12/31/2024	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	160	16.0	01/02/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	228	114	200	5.82	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	225	112	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 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:	12/31/2024	Sampling Date:	12/27/2024
Reported:	01/07/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 85 @ 1' (H247808-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	2.27	114	2.00	2.85	
Toluene*	<0.050	0.050	12/31/2024	ND	2.36	118	2.00	3.36	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	2.42	121	2.00	3.44	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	7.49	125	6.00	2.89	
Total BTEX	<0.300	0.300	12/31/2024	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	16.0	16.0	01/02/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	228	114	200	5.82	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	225	112	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/31/2024	Sampling Date:	12/27/2024
Reported:	01/07/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: NW 2 (H247808-24)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2024	ND	2.27	114	2.00	2.85	
Toluene*	<0.050	0.050	12/31/2024	ND	2.36	118	2.00	3.36	
Ethylbenzene*	<0.050	0.050	12/31/2024	ND	2.42	121	2.00	3.44	
Total Xylenes*	<0.150	0.150	12/31/2024	ND	7.49	125	6.00	2.89	
Total BTEX	<0.300	0.300	12/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	352	16.0	01/02/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2024	ND	228	114	200	5.82	
DRO >C10-C28*	<10.0	10.0	12/31/2024	ND	225	112	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	12/31/2024	ND					

Surrogate: 1-Chlorooctane 107 % 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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Notes and Definitions

- S-05 The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental
Project Manager: Lance Crenshaw
Address: 2617 W Marland Blvd
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 21446 Project Owner: Mewbourne Oil Company
Project Name: Archduke 19 W2AP Fed Com #1H
Project Location: GPS:(32.20955, -104.22248)
Sampler Name: Aaron Rios

Table with columns: Lab I.D., Sample I.D., (G/RAB OR (C)OMP., # CONTAINERS, MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV. (ACID/BASE, ICE / COOL, OTHER), SAMPLING (DATE, TIME), Chloride, TPH, BTEX 8021. Rows 1-10 contain sample data.

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.

Relinquished By: [Signature] Date: 12-31-24 Time: 1449
Received By: [Signature] Date: [Blank] Time: [Blank]
Delivered By: (Circle One) 2-2/COOL or 2-3/#140
Sample Condition: Cool Intact (Yes/No)
CHECKED BY: [Signature]

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental
Project Manager: Lance Crenshaw
Address: 2617 W Marland Blvd
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 21446 Project Owner: Mewbourne Oil Company
Project Name: Archduke 19 W2AP Fed Com #1H
Project Location: GPS:(32.20955, -104.22248)
Sampler Name: Aaron Rios

Table with columns: Lab I.D., Sample I.D., (G)RAB OR (C)OMP, # CONTAINERS, MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV. (ACID/BASE, ICE / COOL, OTHER), SAMPLING (DATE, TIME), Chloride, TPH, BTEX 8021. Rows 11-20.

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.

Relinquished By: [Signature] Date: 12-31-24 Time: 1449
Received By: [Signature] Date: [Blank] Time: [Blank]
Delivered By: (Circle One) 2-9-24/CO.U.C.
Sampler - UPS - Bus - Other: 2-31-24/140
Sample Condition: Cool Intact [X] Yes [] No
CHECKED BY: (Initials) AD

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental
Project Manager: Lance Crenshaw
Address: 2617 W Marland Blvd
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 21446 Project Owner: Mewbourne Oil Company
Project Name: Archduke 19 W2AP Fed Com #1H
Project Location: GPS:(32.20955, -104.22248)
Sampler Name: Aaron Rios

BILL TO

ANALYSIS REQUEST

Table with columns: Lab I.D., Sample I.D., (G/RAB OR (C)OMP., # CONTAINERS, MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV. (ACID/BASE, ICE / COOL, OTHER), SAMPLING (DATE, TIME), Chloride, TPH, BTEX 8021. Includes handwritten entries for samples 21, 22, 23, and 24.

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.

Relinquished By: [Signature] Date: 12/31/24 Time: 1449
Received By: [Signature] Date: [Blank] Time: [Blank]
Delivered By: (Circle One) 292/C-0-02
Sampler - UPS - Bus - Other: 237/#140
Sample Condition: Cool Intact [Checked] Yes [] No
CHECKED BY: (Initials) [Signature]

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



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

January 10, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ARCHDUKE 19 W2AP FED COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 01/06/25 14:57.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 86 @ 2' (H250038-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2025	ND	1.77	88.6	2.00	0.301	
Toluene*	<0.050	0.050	01/06/2025	ND	1.86	92.8	2.00	0.344	
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	1.80	89.8	2.00	1.26	
Total Xylenes*	<0.150	0.150	01/06/2025	ND	5.26	87.7	6.00	1.97	
Total BTEX	<0.300	0.300	01/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 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	448	16.0	01/07/2025	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2025	ND	175	87.6	200	2.67	
DRO >C10-C28*	<10.0	10.0	01/06/2025	ND	174	87.1	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 69.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 87 @ 1' (H250038-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2025	ND	1.77	88.6	2.00	0.301	
Toluene*	<0.050	0.050	01/06/2025	ND	1.86	92.8	2.00	0.344	
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	1.80	89.8	2.00	1.26	
Total Xylenes*	<0.150	0.150	01/06/2025	ND	5.26	87.7	6.00	1.97	
Total BTEX	<0.300	0.300	01/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 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	01/07/2025	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2025	ND	175	87.6	200	2.67	
DRO >C10-C28*	<10.0	10.0	01/06/2025	ND	174	87.1	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.8 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 88 @ 7' (H250038-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2025	ND	1.77	88.6	2.00	0.301	
Toluene*	<0.050	0.050	01/06/2025	ND	1.86	92.8	2.00	0.344	
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	1.80	89.8	2.00	1.26	
Total Xylenes*	<0.150	0.150	01/06/2025	ND	5.26	87.7	6.00	1.97	
Total BTEX	<0.300	0.300	01/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 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	288	16.0	01/07/2025	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2025	ND	175	87.6	200	2.67	
DRO >C10-C28*	<10.0	10.0	01/06/2025	ND	174	87.1	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	01/06/2025	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.7 % 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:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 89 @ 7' (H250038-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2025	ND	1.77	88.6	2.00	0.301	
Toluene*	<0.050	0.050	01/06/2025	ND	1.86	92.8	2.00	0.344	
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	1.80	89.8	2.00	1.26	
Total Xylenes*	<0.150	0.150	01/06/2025	ND	5.26	87.7	6.00	1.97	
Total BTEX	<0.300	0.300	01/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/07/2025	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	01/07/2025	ND	182	91.0	200	0.0516	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	179	89.6	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 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:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 90 @ 7' (H250038-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/06/2025	ND	1.77	88.6	2.00	0.301		
Toluene*	<0.050	0.050	01/06/2025	ND	1.86	92.8	2.00	0.344		
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	1.80	89.8	2.00	1.26		
Total Xylenes*	<0.150	0.150	01/06/2025	ND	5.26	87.7	6.00	1.97		
Total BTEX	<0.300	0.300	01/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	01/07/2025	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	01/07/2025	ND	182	91.0	200	0.0516		
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	179	89.6	200	1.02		
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND						

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 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:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 91 @ 7' (H250038-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2025	ND	1.77	88.6	2.00	0.301	
Toluene*	<0.050	0.050	01/06/2025	ND	1.86	92.8	2.00	0.344	
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	1.80	89.8	2.00	1.26	
Total Xylenes*	<0.150	0.150	01/06/2025	ND	5.26	87.7	6.00	1.97	
Total BTEX	<0.300	0.300	01/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	01/07/2025	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	01/07/2025	ND	182	91.0	200	0.0516	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	179	89.6	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 92 @ 7' (H250038-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/06/2025	ND	1.77	88.6	2.00	0.301		
Toluene*	<0.050	0.050	01/06/2025	ND	1.86	92.8	2.00	0.344		
Ethylbenzene*	<0.050	0.050	01/06/2025	ND	1.80	89.8	2.00	1.26		
Total Xylenes*	<0.150	0.150	01/06/2025	ND	5.26	87.7	6.00	1.97		
Total BTEX	<0.300	0.300	01/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	01/07/2025	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	01/07/2025	ND	182	91.0	200	0.0516		
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	179	89.6	200	1.02		
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND						

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 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:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 93 @ 7' (H250038-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/07/2025	ND	1.71	85.7	2.00	3.18	QM-07, QR-03	
Toluene*	<0.050	0.050	01/07/2025	ND	1.85	92.5	2.00	1.98	QR-03	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	1.81	90.4	2.00	1.09	QM-07, QR-03	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	5.30	88.4	6.00	1.03	QM-07, QR-03	
Total BTEX	<0.300	0.300	01/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	01/07/2025	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	01/07/2025	ND	182	91.0	200	0.0516		
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	179	89.6	200	1.02		
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND						

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 94 @ 2' (H250038-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/07/2025	ND	1.71	85.7	2.00	3.18	
Toluene*	<0.050	0.050	01/07/2025	ND	1.85	92.5	2.00	1.98	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	1.81	90.4	2.00	1.09	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	5.30	88.4	6.00	1.03	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/07/2025	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	01/07/2025	ND	182	91.0	200	0.0516	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	179	89.6	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 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:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 95 @ 1' (H250038-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/07/2025	ND	1.71	85.7	2.00	3.18	
Toluene*	<0.050	0.050	01/07/2025	ND	1.85	92.5	2.00	1.98	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	1.81	90.4	2.00	1.09	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	5.30	88.4	6.00	1.03	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	01/07/2025	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	01/07/2025	ND	182	91.0	200	0.0516	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	179	89.6	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 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:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 96 @ 2' (H250038-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/07/2025	ND	1.71	85.7	2.00	3.18	
Toluene*	<0.050	0.050	01/07/2025	ND	1.85	92.5	2.00	1.98	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	1.81	90.4	2.00	1.09	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	5.30	88.4	6.00	1.03	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/07/2025	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	01/07/2025	ND	182	91.0	200	0.0516	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	179	89.6	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 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:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 97 @ 2' (H250038-12)

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	01/07/2025	ND	1.71	85.7	2.00	3.18	
Toluene*	<0.050	0.050	01/07/2025	ND	1.85	92.5	2.00	1.98	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	1.81	90.4	2.00	1.09	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	5.30	88.4	6.00	1.03	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/07/2025	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	01/07/2025	ND	182	91.0	200	0.0516	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	179	89.6	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 98 @ 2' (H250038-13)

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	01/07/2025	ND	1.71	85.7	2.00	3.18	
Toluene*	<0.050	0.050	01/07/2025	ND	1.85	92.5	2.00	1.98	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	1.81	90.4	2.00	1.09	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	5.30	88.4	6.00	1.03	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/07/2025	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	01/07/2025	ND	182	91.0	200	0.0516	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	179	89.6	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 49.1-148

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Analytical Results For:

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

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 99 @ 2' (H250038-14)

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	01/07/2025	ND	1.71	85.7	2.00	3.18	
Toluene*	<0.050	0.050	01/07/2025	ND	1.85	92.5	2.00	1.98	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	1.81	90.4	2.00	1.09	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	5.30	88.4	6.00	1.03	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/07/2025	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	01/07/2025	ND	182	91.0	200	0.0516	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	179	89.6	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 100 @ 2' (H250038-15)

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	01/07/2025	ND	1.71	85.7	2.00	3.18	
Toluene*	<0.050	0.050	01/07/2025	ND	1.85	92.5	2.00	1.98	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	1.81	90.4	2.00	1.09	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	5.30	88.4	6.00	1.03	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/07/2025	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	01/07/2025	ND	182	91.0	200	0.0516	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	179	89.6	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
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Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 101 @ 2' (H250038-16)

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	01/07/2025	ND	1.71	85.7	2.00	3.18	
Toluene*	<0.050	0.050	01/07/2025	ND	1.85	92.5	2.00	1.98	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	1.81	90.4	2.00	1.09	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	5.30	88.4	6.00	1.03	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/07/2025	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	01/07/2025	ND	182	91.0	200	0.0516	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	179	89.6	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

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Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 102 @ 2' (H250038-17)

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	01/07/2025	ND	1.71	85.7	2.00	3.18	
Toluene*	<0.050	0.050	01/07/2025	ND	1.85	92.5	2.00	1.98	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	1.81	90.4	2.00	1.09	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	5.30	88.4	6.00	1.03	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/07/2025	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	01/07/2025	ND	182	91.0	200	0.0516	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	179	89.6	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Analytical Results For:

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

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 103 @ 2' (H250038-18)

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	01/07/2025	ND	1.71	85.7	2.00	3.18	
Toluene*	<0.050	0.050	01/07/2025	ND	1.85	92.5	2.00	1.98	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	1.81	90.4	2.00	1.09	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	5.30	88.4	6.00	1.03	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/07/2025	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	01/07/2025	ND	182	91.0	200	0.0516	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	179	89.6	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 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:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 104 @ 1' (H250038-19)

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	01/07/2025	ND	1.71	85.7	2.00	3.18	
Toluene*	<0.050	0.050	01/07/2025	ND	1.85	92.5	2.00	1.98	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	1.81	90.4	2.00	1.09	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	5.30	88.4	6.00	1.03	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	01/07/2025	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	01/07/2025	ND	182	91.0	200	0.0516	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	179	89.6	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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Analytical Results For:

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

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 105 @ 1' (H250038-20)

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	01/07/2025	ND	1.71	85.7	2.00	3.18	
Toluene*	<0.050	0.050	01/07/2025	ND	1.85	92.5	2.00	1.98	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	1.81	90.4	2.00	1.09	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	5.30	88.4	6.00	1.03	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/07/2025	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	01/07/2025	ND	182	91.0	200	0.0516	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	179	89.6	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Analytical Results For:

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

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 106 @ 1' (H250038-21)

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	01/07/2025	ND	1.71	85.7	2.00	3.18	
Toluene*	<0.050	0.050	01/07/2025	ND	1.85	92.5	2.00	1.98	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	1.81	90.4	2.00	1.09	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	5.30	88.4	6.00	1.03	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	01/07/2025	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	01/07/2025	ND	182	91.0	200	0.0516	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	179	89.6	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

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 HOBBS NM, 88240
 Fax To:

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 107 @ 2' (H250038-22)

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	01/07/2025	ND	1.71	85.7	2.00	3.18	
Toluene*	<0.050	0.050	01/07/2025	ND	1.85	92.5	2.00	1.98	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	1.81	90.4	2.00	1.09	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	5.30	88.4	6.00	1.03	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/07/2025	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	01/07/2025	ND	182	91.0	200	0.0516	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	179	89.6	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 108 @ 2' (H250038-23)

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	01/07/2025	ND	1.71	85.7	2.00	3.18	
Toluene*	<0.050	0.050	01/07/2025	ND	1.85	92.5	2.00	1.98	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	1.81	90.4	2.00	1.09	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	5.30	88.4	6.00	1.03	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/07/2025	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	01/07/2025	ND	182	91.0	200	0.0516	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	179	89.6	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 109 @ 1' (H250038-24)

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	01/07/2025	ND	1.71	85.7	2.00	3.18	
Toluene*	<0.050	0.050	01/07/2025	ND	1.85	92.5	2.00	1.98	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	1.81	90.4	2.00	1.09	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	5.30	88.4	6.00	1.03	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 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	01/07/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2025	ND	216	108	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	200	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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Analytical Results For:

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

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 110 @ 1' (H250038-25)

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	01/07/2025	ND	1.71	85.7	2.00	3.18	
Toluene*	<0.050	0.050	01/07/2025	ND	1.85	92.5	2.00	1.98	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	1.81	90.4	2.00	1.09	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	5.30	88.4	6.00	1.03	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 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	128	16.0	01/07/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2025	ND	216	108	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	200	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

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

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 111 @ 1' (H250038-26)

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	01/07/2025	ND	1.71	85.7	2.00	3.18	
Toluene*	<0.050	0.050	01/07/2025	ND	1.85	92.5	2.00	1.98	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	1.81	90.4	2.00	1.09	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	5.30	88.4	6.00	1.03	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 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	352	16.0	01/07/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2025	ND	216	108	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	200	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 95.5 % 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:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 112 @ 1' (H250038-27)

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	01/07/2025	ND	1.74	87.0	2.00	5.76	
Toluene*	<0.050	0.050	01/07/2025	ND	1.84	91.8	2.00	4.71	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	1.76	87.8	2.00	4.08	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	5.14	85.6	6.00	4.38	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 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	480	16.0	01/07/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2025	ND	216	108	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	200	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 113 @ 1' (H250038-28)

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	01/07/2025	ND	1.93	96.5	2.00	0.864	QR-03
Toluene*	<0.050	0.050	01/07/2025	ND	1.99	99.3	2.00	0.224	QR-03
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	2.01	100	2.00	0.171	QM-07, QR-03
Total Xylenes*	<0.150	0.150	01/07/2025	ND	6.10	102	6.00	0.508	QM-07, QR-03
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	01/07/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2025	ND	216	108	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	200	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 92.2 % 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:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 114 @ 1' (H250038-29)

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	01/07/2025	ND	1.93	96.5	2.00	0.864	
Toluene*	<0.050	0.050	01/07/2025	ND	1.99	99.3	2.00	0.224	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	2.01	100	2.00	0.171	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	6.10	102	6.00	0.508	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	1250	16.0	01/07/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2025	ND	216	108	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	200	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 115 @ 1' (H250038-30)

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	01/07/2025	ND	1.93	96.5	2.00	0.864	
Toluene*	<0.050	0.050	01/07/2025	ND	1.99	99.3	2.00	0.224	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	2.01	100	2.00	0.171	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	6.10	102	6.00	0.508	
Total BTEX	<0.300	0.300	01/07/2025	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	224	16.0	01/07/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2025	ND	216	108	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	200	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 116 @ 1' (H250038-31)

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	01/07/2025	ND	1.93	96.5	2.00	0.864	
Toluene*	<0.050	0.050	01/07/2025	ND	1.99	99.3	2.00	0.224	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	2.01	100	2.00	0.171	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	6.10	102	6.00	0.508	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	01/07/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2025	ND	216	108	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	200	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 117 @ 1' (H250038-32)

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	01/07/2025	ND	1.93	96.5	2.00	0.864	
Toluene*	<0.050	0.050	01/07/2025	ND	1.99	99.3	2.00	0.224	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	2.01	100	2.00	0.171	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	6.10	102	6.00	0.508	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	432	16.0	01/07/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2025	ND	216	108	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	200	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 67.8 % 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:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 118 @ 1' (H250038-33)

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	01/07/2025	ND	1.93	96.5	2.00	0.864	
Toluene*	<0.050	0.050	01/07/2025	ND	1.99	99.3	2.00	0.224	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	2.01	100	2.00	0.171	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	6.10	102	6.00	0.508	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	01/07/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2025	ND	216	108	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	200	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 92.5 % 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:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 119 @ 1' (H250038-34)

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	01/07/2025	ND	1.93	96.5	2.00	0.864	
Toluene*	<0.050	0.050	01/07/2025	ND	1.99	99.3	2.00	0.224	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	2.01	100	2.00	0.171	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	6.10	102	6.00	0.508	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	288	16.0	01/07/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2025	ND	216	108	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	200	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 91.1 % 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:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 120 @ 1' (H250038-35)

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	01/07/2025	ND	1.93	96.5	2.00	0.864	
Toluene*	<0.050	0.050	01/07/2025	ND	1.99	99.3	2.00	0.224	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	2.01	100	2.00	0.171	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	6.10	102	6.00	0.508	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	01/07/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2025	ND	216	108	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	200	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 121 @ 1' (H250038-36)

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	01/07/2025	ND	1.93	96.5	2.00	0.864	
Toluene*	<0.050	0.050	01/07/2025	ND	1.99	99.3	2.00	0.224	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	2.01	100	2.00	0.171	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	6.10	102	6.00	0.508	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	368	16.0	01/07/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2025	ND	216	108	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	200	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 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:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 122 @ 1' (H250038-37)

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	01/07/2025	ND	1.93	96.5	2.00	0.864	
Toluene*	<0.050	0.050	01/07/2025	ND	1.99	99.3	2.00	0.224	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	2.01	100	2.00	0.171	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	6.10	102	6.00	0.508	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	736	16.0	01/07/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2025	ND	216	108	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	200	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

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

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 123 @ 1' (H250038-38)

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	01/07/2025	ND	1.93	96.5	2.00	0.864	
Toluene*	<0.050	0.050	01/07/2025	ND	1.99	99.3	2.00	0.224	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	2.01	100	2.00	0.171	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	6.10	102	6.00	0.508	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	01/07/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2025	ND	216	108	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	200	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 124 @ 1' (H250038-39)

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	01/07/2025	ND	1.93	96.5	2.00	0.864	
Toluene*	<0.050	0.050	01/07/2025	ND	1.99	99.3	2.00	0.224	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	2.01	100	2.00	0.171	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	6.10	102	6.00	0.508	
Total BTEX	<0.300	0.300	01/07/2025	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	208	16.0	01/07/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2025	ND	216	108	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	200	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 94.8 % 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:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 125 @ 1' (H250038-40)

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	01/07/2025	ND	1.93	96.5	2.00	0.864	
Toluene*	<0.050	0.050	01/07/2025	ND	1.99	99.3	2.00	0.224	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	2.01	100	2.00	0.171	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	6.10	102	6.00	0.508	
Total BTEX	<0.300	0.300	01/07/2025	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	304	16.0	01/07/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2025	ND	216	108	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	200	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 126 @ 1' (H250038-41)

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	01/07/2025	ND	1.93	96.5	2.00	0.864	
Toluene*	<0.050	0.050	01/07/2025	ND	1.99	99.3	2.00	0.224	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	2.01	100	2.00	0.171	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	6.10	102	6.00	0.508	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	320	16.0	01/07/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2025	ND	216	108	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	200	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 127 @ 1' (H250038-42)

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	01/07/2025	ND	1.93	96.5	2.00	0.864	
Toluene*	<0.050	0.050	01/07/2025	ND	1.99	99.3	2.00	0.224	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	2.01	100	2.00	0.171	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	6.10	102	6.00	0.508	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	01/07/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2025	ND	216	108	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	200	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 49.1-148

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Analytical Results For:

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

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 128 @ 1' (H250038-43)

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	01/07/2025	ND	1.93	96.5	2.00	0.864	
Toluene*	<0.050	0.050	01/07/2025	ND	1.99	99.3	2.00	0.224	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	2.01	100	2.00	0.171	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	6.10	102	6.00	0.508	
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	192	16.0	01/07/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2025	ND	216	108	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	200	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 90.9 % 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:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 129 @ 1' (H250038-44)

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	01/07/2025	ND	1.93	96.5	2.00	0.864	
Toluene*	<0.050	0.050	01/07/2025	ND	1.99	99.3	2.00	0.224	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	2.01	100	2.00	0.171	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	6.10	102	6.00	0.508	
Total BTEX	<0.300	0.300	01/07/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	01/07/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2025	ND	195	97.5	200	3.31	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	194	96.8	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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Analytical Results For:

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

Received:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 130 @ 1' (H250038-45)

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	01/07/2025	ND	1.93	96.5	2.00	0.864	
Toluene*	<0.050	0.050	01/07/2025	ND	1.99	99.3	2.00	0.224	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	2.01	100	2.00	0.171	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	6.10	102	6.00	0.508	
Total BTEX	<0.300	0.300	01/07/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/07/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2025	ND	195	97.5	200	3.31	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	194	96.8	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 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:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: WW 4 (H250038-46)

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	01/07/2025	ND	1.93	96.5	2.00	0.864	
Toluene*	<0.050	0.050	01/07/2025	ND	1.99	99.3	2.00	0.224	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	2.01	100	2.00	0.171	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	6.10	102	6.00	0.508	
Total BTEX	<0.300	0.300	01/07/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	01/07/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2025	ND	195	97.5	200	3.31	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	194	96.8	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 88.3 % 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:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: EW 1 (H250038-47)

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	01/07/2025	ND	1.93	96.5	2.00	0.864	
Toluene*	<0.050	0.050	01/07/2025	ND	1.99	99.3	2.00	0.224	
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	2.01	100	2.00	0.171	
Total Xylenes*	<0.150	0.150	01/07/2025	ND	6.10	102	6.00	0.508	
Total BTEX	<0.300	0.300	01/07/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/07/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2025	ND	195	97.5	200	3.31	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	194	96.8	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 83.5 % 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:	01/06/2025	Sampling Date:	01/06/2025
Reported:	01/10/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: EW 2 (H250038-48)

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	01/07/2025	ND	1.85	92.7	2.00	7.38	QM-07, QR-03
Toluene*	<0.050	0.050	01/07/2025	ND	1.89	94.6	2.00	6.28	QM-07, QR-03
Ethylbenzene*	<0.050	0.050	01/07/2025	ND	1.90	94.8	2.00	5.72	QM-07, QR-03
Total Xylenes*	<0.150	0.150	01/07/2025	ND	5.69	94.8	6.00	5.96	QM-07, QR-03
Total BTEX	<0.300	0.300	01/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	01/07/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2025	ND	195	97.5	200	3.31	
DRO >C10-C28*	<10.0	10.0	01/07/2025	ND	194	96.8	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	01/07/2025	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Form containing company information (Etech Environmental & Safety Solutions, Inc.), project details (Project Manager: Lance Crenshaw), and a table for analysis requests with columns for Lab I.D., Sample I.D., Matrix, Preserv., and Sampling. The table lists samples FL 86 through FL 95 with various matrix types and sampling dates.

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.

Form for Relinquished/Received By, Date, Time, and Remarks. Includes fields for Delivered By, Observed/Corrected Temp, Sample Condition, and Turnaround Time (Standard/Rush).



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Form containing company and project information, a 'BILL TO' section, an 'ANALYSIS REQUEST' table with columns for Chloride, TPH (8015M), and BTEX (8021B), and a detailed sampling table with columns for Lab I.D., Sample I.D., container types, matrix types, preservation methods, and sampling dates/times.

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.

Form for signature and results, including 'Relinquished By', 'Received By', 'Verbal Result' (Yes/No), 'All Results are emailed' (Yes/No), 'REMARKS', and 'Delivered By' (Standard/Rush) with associated checkboxes and fields for temperature and sample condition.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental & Safety Solutions, Inc.
Project Manager: Lance Crenshaw
Address: 2617 West Marland
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 21446 Project Owner: Mewbourne
Project Name: Archduke 19 W2AP Fed Com #1H
Project Location: 32.20955, -104.22248
Sampler Name: Aaron Rios

Table with columns: Lab I.D., Sample I.D., (GRAB OR (C)OMP. # CONTAINERS, MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV. (ACID/BASE, ICE / COOL, OTHER), SAMPLING (DATE, TIME), Chloride, TPH (8015M), BTEX (8021B). Rows 01-09.

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.

Relinquished By: [Signature] Date: 1-16-25 Time: 1457
Received By: [Signature] Date: [Blank] Time: [Blank]
Verbal Result: [X] Yes [] No Add'l Phone #:
All Results are emailed. Please provide Email address: pm@etechenv.com
REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C: -10.0°C Corrected Temp. °C: -10.0°C
Sample Condition Cool Intact: [X] Yes [] No
CHECKED BY: (Initials) [AR]
Turnaround Time: Standard [] Rush [X]
Bacteria (only) Sample Condition Cool Intact Observed Temp. °C: [] Yes [] No [] Yes [] No Corrected Temp. °C



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Form containing company and project information, a 'BILL TO' section, an 'ANALYSIS REQUEST' table with columns for Lab I.D., Sample I.D., matrix types (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERVATION methods (ACID/BASE, ICE/COOL, OTHER), SAMPLING DATE and TIME, and analysis results for Chloride, TPH (8015M), and BTEX (8021B).

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.

Form for Relinquished/Received By, Verbal Result, REMARKS, and Turnaround Time. Includes fields for Date, Time, Signature, and checkboxes for Standard/Rush and Bacteria/Sample Condition.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Form containing company information (Company Name: Etech Environmental & Safety Solutions, Inc.), project details (Project Manager: Lance Crenshaw), and a table of analysis requests with columns for Lab I.D., Sample I.D., Matrix, Preservation, Sampling, and various analytes (Chloride, TPH, BTEX).

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.

Form for handover and results, including fields for Relinquished By, Received By, Date, Time, Verbal Result, Remarks, and Sample Condition.



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

January 13, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ARCHDUKE 19 W2AP FED COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 01/07/25 15:02.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/07/2025	Sampling Date:	01/07/2025
Reported:	01/13/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 131 @ 1' (H250063-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2025	ND	1.63	81.5	2.00	3.22	
Toluene*	<0.050	0.050	01/08/2025	ND	1.74	86.8	2.00	3.71	
Ethylbenzene*	<0.050	0.050	01/08/2025	ND	1.77	88.3	2.00	3.95	
Total Xylenes*	<0.150	0.150	01/08/2025	ND	5.29	88.2	6.00	3.93	
Total BTEX	<0.300	0.300	01/08/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	01/08/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2025	ND	199	99.6	200	2.86	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	196	98.1	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/07/2025	Sampling Date:	01/07/2025
Reported:	01/13/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 132 @ 1' (H250063-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2025	ND	1.63	81.5	2.00	3.22	
Toluene*	<0.050	0.050	01/08/2025	ND	1.74	86.8	2.00	3.71	
Ethylbenzene*	<0.050	0.050	01/08/2025	ND	1.77	88.3	2.00	3.95	
Total Xylenes*	<0.150	0.150	01/08/2025	ND	5.29	88.2	6.00	3.93	
Total BTEX	<0.300	0.300	01/08/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	01/08/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2025	ND	199	99.6	200	2.86	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	196	98.1	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 70.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/07/2025	Sampling Date:	01/07/2025
Reported:	01/13/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 133 @ 1' (H250063-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2025	ND	1.63	81.5	2.00	3.22	
Toluene*	<0.050	0.050	01/08/2025	ND	1.74	86.8	2.00	3.71	
Ethylbenzene*	<0.050	0.050	01/08/2025	ND	1.77	88.3	2.00	3.95	
Total Xylenes*	<0.150	0.150	01/08/2025	ND	5.29	88.2	6.00	3.93	
Total BTEX	<0.300	0.300	01/08/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/08/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2025	ND	199	99.6	200	2.86	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	196	98.1	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/07/2025	Sampling Date:	01/07/2025
Reported:	01/13/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 134 @ 1' (H250063-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2025	ND	1.63	81.5	2.00	3.22	
Toluene*	<0.050	0.050	01/08/2025	ND	1.74	86.8	2.00	3.71	
Ethylbenzene*	<0.050	0.050	01/08/2025	ND	1.77	88.3	2.00	3.95	
Total Xylenes*	<0.150	0.150	01/08/2025	ND	5.29	88.2	6.00	3.93	
Total BTEX	<0.300	0.300	01/08/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	01/08/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2025	ND	199	99.6	200	2.86	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	196	98.1	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/07/2025	Sampling Date:	01/07/2025
Reported:	01/13/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 135 @ 1' (H250063-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2025	ND	1.63	81.5	2.00	3.22	
Toluene*	<0.050	0.050	01/08/2025	ND	1.74	86.8	2.00	3.71	
Ethylbenzene*	<0.050	0.050	01/08/2025	ND	1.77	88.3	2.00	3.95	
Total Xylenes*	<0.150	0.150	01/08/2025	ND	5.29	88.2	6.00	3.93	
Total BTEX	<0.300	0.300	01/08/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/08/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2025	ND	199	99.6	200	2.86	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	196	98.1	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/07/2025	Sampling Date:	01/07/2025
Reported:	01/13/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 136 @ 1' (H250063-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2025	ND	1.63	81.5	2.00	3.22	
Toluene*	<0.050	0.050	01/08/2025	ND	1.74	86.8	2.00	3.71	
Ethylbenzene*	<0.050	0.050	01/08/2025	ND	1.77	88.3	2.00	3.95	
Total Xylenes*	<0.150	0.150	01/08/2025	ND	5.29	88.2	6.00	3.93	
Total BTEX	<0.300	0.300	01/08/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/08/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2025	ND	199	99.6	200	2.86	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	196	98.1	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 83.0 % 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:	01/07/2025	Sampling Date:	01/07/2025
Reported:	01/13/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 137 @ 1' (H250063-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2025	ND	1.63	81.5	2.00	3.22	
Toluene*	<0.050	0.050	01/08/2025	ND	1.74	86.8	2.00	3.71	
Ethylbenzene*	<0.050	0.050	01/08/2025	ND	1.77	88.3	2.00	3.95	
Total Xylenes*	<0.150	0.150	01/08/2025	ND	5.29	88.2	6.00	3.93	
Total BTEX	<0.300	0.300	01/08/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/08/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2025	ND	199	99.6	200	2.86	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	196	98.1	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 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:	01/07/2025	Sampling Date:	01/07/2025
Reported:	01/13/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 138 @ 1' (H250063-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2025	ND	1.63	81.5	2.00	3.22	
Toluene*	<0.050	0.050	01/08/2025	ND	1.74	86.8	2.00	3.71	
Ethylbenzene*	<0.050	0.050	01/08/2025	ND	1.77	88.3	2.00	3.95	
Total Xylenes*	<0.150	0.150	01/08/2025	ND	5.29	88.2	6.00	3.93	
Total BTEX	<0.300	0.300	01/08/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/08/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2025	ND	199	99.6	200	2.86	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	196	98.1	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/07/2025	Sampling Date:	01/07/2025
Reported:	01/13/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 139 @ 1' (H250063-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2025	ND	1.63	81.5	2.00	3.22	
Toluene*	<0.050	0.050	01/08/2025	ND	1.74	86.8	2.00	3.71	
Ethylbenzene*	<0.050	0.050	01/08/2025	ND	1.77	88.3	2.00	3.95	
Total Xylenes*	<0.150	0.150	01/08/2025	ND	5.29	88.2	6.00	3.93	
Total BTEX	<0.300	0.300	01/08/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/08/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2025	ND	199	99.6	200	2.86	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	196	98.1	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.5 % 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:	01/07/2025	Sampling Date:	01/07/2025
Reported:	01/13/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 140 @ 1' (H250063-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2025	ND	1.63	81.5	2.00	3.22	
Toluene*	<0.050	0.050	01/08/2025	ND	1.74	86.8	2.00	3.71	
Ethylbenzene*	<0.050	0.050	01/08/2025	ND	1.77	88.3	2.00	3.95	
Total Xylenes*	<0.150	0.150	01/08/2025	ND	5.29	88.2	6.00	3.93	
Total BTEX	<0.300	0.300	01/08/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/08/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2025	ND	199	99.6	200	2.86	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	196	98.1	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Analytical Results For:

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

Received:	01/07/2025	Sampling Date:	01/07/2025
Reported:	01/13/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 141 @ 1' (H250063-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2025	ND	1.63	81.5	2.00	3.22	
Toluene*	<0.050	0.050	01/08/2025	ND	1.74	86.8	2.00	3.71	
Ethylbenzene*	<0.050	0.050	01/08/2025	ND	1.77	88.3	2.00	3.95	
Total Xylenes*	<0.150	0.150	01/08/2025	ND	5.29	88.2	6.00	3.93	
Total BTEX	<0.300	0.300	01/08/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/08/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2025	ND	199	99.6	200	2.86	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	196	98.1	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 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:	01/07/2025	Sampling Date:	01/07/2025
Reported:	01/13/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 142 @ 1' (H250063-12)

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	01/09/2025	ND	1.76	87.8	2.00	2.71	QR-03
Toluene*	<0.050	0.050	01/09/2025	ND	1.82	91.2	2.00	1.99	
Ethylbenzene*	<0.050	0.050	01/09/2025	ND	1.85	92.7	2.00	1.22	
Total Xylenes*	<0.150	0.150	01/09/2025	ND	5.67	94.4	6.00	1.29	
Total BTEX	<0.300	0.300	01/09/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/08/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2025	ND	176	88.1	200	3.02	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	179	89.6	200	6.82	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 65.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.7 % 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:	01/07/2025	Sampling Date:	01/07/2025
Reported:	01/13/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 143 @ 1' (H250063-13)

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	01/09/2025	ND	1.76	87.8	2.00	2.71	
Toluene*	<0.050	0.050	01/09/2025	ND	1.82	91.2	2.00	1.99	
Ethylbenzene*	<0.050	0.050	01/09/2025	ND	1.85	92.7	2.00	1.22	
Total Xylenes*	<0.150	0.150	01/09/2025	ND	5.67	94.4	6.00	1.29	
Total BTEX	<0.300	0.300	01/09/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/08/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2025	ND	176	88.1	200	3.02	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	179	89.6	200	6.82	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/07/2025	Sampling Date:	01/07/2025
Reported:	01/13/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 144 @ 1' (H250063-14)

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	01/09/2025	ND	1.76	87.8	2.00	2.71	
Toluene*	<0.050	0.050	01/09/2025	ND	1.82	91.2	2.00	1.99	
Ethylbenzene*	<0.050	0.050	01/09/2025	ND	1.85	92.7	2.00	1.22	
Total Xylenes*	<0.150	0.150	01/09/2025	ND	5.67	94.4	6.00	1.29	
Total BTEX	<0.300	0.300	01/09/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/08/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2025	ND	176	88.1	200	3.02	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	179	89.6	200	6.82	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 70.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.2 % 49.1-148

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Analytical Results For:

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

Received:	01/07/2025	Sampling Date:	01/07/2025
Reported:	01/13/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 145 @ 1' (H250063-15)

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	01/09/2025	ND	1.76	87.8	2.00	2.71	
Toluene*	<0.050	0.050	01/09/2025	ND	1.82	91.2	2.00	1.99	
Ethylbenzene*	<0.050	0.050	01/09/2025	ND	1.85	92.7	2.00	1.22	
Total Xylenes*	<0.150	0.150	01/09/2025	ND	5.67	94.4	6.00	1.29	
Total BTEX	<0.300	0.300	01/09/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/08/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2025	ND	176	88.1	200	3.02	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	179	89.6	200	6.82	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 74.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.4 % 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:	01/07/2025	Sampling Date:	01/07/2025
Reported:	01/13/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 146 @ 1' (H250063-16)

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	01/09/2025	ND	1.76	87.8	2.00	2.71	
Toluene*	<0.050	0.050	01/09/2025	ND	1.82	91.2	2.00	1.99	
Ethylbenzene*	<0.050	0.050	01/09/2025	ND	1.85	92.7	2.00	1.22	
Total Xylenes*	<0.150	0.150	01/09/2025	ND	5.67	94.4	6.00	1.29	
Total BTEX	<0.300	0.300	01/09/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/08/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2025	ND	176	88.1	200	3.02	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	179	89.6	200	6.82	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 69.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.4 % 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:	01/07/2025	Sampling Date:	01/07/2025
Reported:	01/13/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 147 @ 1' (H250063-17)

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	01/09/2025	ND	1.76	87.8	2.00	2.71	
Toluene*	<0.050	0.050	01/09/2025	ND	1.82	91.2	2.00	1.99	
Ethylbenzene*	<0.050	0.050	01/09/2025	ND	1.85	92.7	2.00	1.22	
Total Xylenes*	<0.150	0.150	01/09/2025	ND	5.67	94.4	6.00	1.29	
Total BTEX	<0.300	0.300	01/09/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/08/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2025	ND	176	88.1	200	3.02	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	179	89.6	200	6.82	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 76.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.2 % 49.1-148

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Analytical Results For:

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

Received:	01/07/2025	Sampling Date:	01/07/2025
Reported:	01/13/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 148 @ 2' (H250063-18)

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	01/09/2025	ND	1.76	87.8	2.00	2.71	
Toluene*	<0.050	0.050	01/09/2025	ND	1.82	91.2	2.00	1.99	
Ethylbenzene*	<0.050	0.050	01/09/2025	ND	1.85	92.7	2.00	1.22	
Total Xylenes*	<0.150	0.150	01/09/2025	ND	5.67	94.4	6.00	1.29	
Total BTEX	<0.300	0.300	01/09/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/08/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2025	ND	176	88.1	200	3.02	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	179	89.6	200	6.82	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.9 % 49.1-148

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Analytical Results For:

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

Received:	01/07/2025	Sampling Date:	01/07/2025
Reported:	01/13/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 149 @ 1' (H250063-19)

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	01/09/2025	ND	1.76	87.8	2.00	2.71	
Toluene*	<0.050	0.050	01/09/2025	ND	1.82	91.2	2.00	1.99	
Ethylbenzene*	<0.050	0.050	01/09/2025	ND	1.85	92.7	2.00	1.22	
Total Xylenes*	<0.150	0.150	01/09/2025	ND	5.67	94.4	6.00	1.29	
Total BTEX	<0.300	0.300	01/09/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/08/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2025	ND	176	88.1	200	3.02	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	179	89.6	200	6.82	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

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Analytical Results For:

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

Received:	01/07/2025	Sampling Date:	01/07/2025
Reported:	01/13/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 150 @ 1' (H250063-20)

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	01/09/2025	ND	1.76	87.8	2.00	2.71	
Toluene*	<0.050	0.050	01/09/2025	ND	1.82	91.2	2.00	1.99	
Ethylbenzene*	<0.050	0.050	01/09/2025	ND	1.85	92.7	2.00	1.22	
Total Xylenes*	<0.150	0.150	01/09/2025	ND	5.67	94.4	6.00	1.29	
Total BTEX	<0.300	0.300	01/09/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/08/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2025	ND	176	88.1	200	3.02	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	179	89.6	200	6.82	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 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:	01/07/2025	Sampling Date:	01/07/2025
Reported:	01/13/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 151 @ 1' (H250063-21)

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	01/09/2025	ND	1.76	87.8	2.00	2.71	
Toluene*	<0.050	0.050	01/09/2025	ND	1.82	91.2	2.00	1.99	
Ethylbenzene*	<0.050	0.050	01/09/2025	ND	1.85	92.7	2.00	1.22	
Total Xylenes*	<0.150	0.150	01/09/2025	ND	5.67	94.4	6.00	1.29	
Total BTEX	<0.300	0.300	01/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	01/08/2025	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	01/08/2025	ND	176	88.1	200	3.02	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	179	89.6	200	6.82	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

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Analytical Results For:

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

Received:	01/07/2025	Sampling Date:	01/07/2025
Reported:	01/13/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: NW 3 (H250063-22)

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	01/09/2025	ND	1.76	87.8	2.00	2.71	
Toluene*	<0.050	0.050	01/09/2025	ND	1.82	91.2	2.00	1.99	
Ethylbenzene*	<0.050	0.050	01/09/2025	ND	1.85	92.7	2.00	1.22	
Total Xylenes*	<0.150	0.150	01/09/2025	ND	5.67	94.4	6.00	1.29	
Total BTEX	<0.300	0.300	01/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	01/08/2025	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	01/08/2025	ND	176	88.1	200	3.02	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	179	89.6	200	6.82	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 68.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.7 % 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:	01/07/2025	Sampling Date:	01/07/2025
Reported:	01/13/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: EW 3 (H250063-23)

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	01/09/2025	ND	1.76	87.8	2.00	2.71	
Toluene*	<0.050	0.050	01/09/2025	ND	1.82	91.2	2.00	1.99	
Ethylbenzene*	<0.050	0.050	01/09/2025	ND	1.85	92.7	2.00	1.22	
Total Xylenes*	<0.150	0.150	01/09/2025	ND	5.67	94.4	6.00	1.29	
Total BTEX	<0.300	0.300	01/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	01/08/2025	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	01/08/2025	ND	176	88.1	200	3.02	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	179	89.6	200	6.82	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/07/2025	Sampling Date:	01/07/2025
Reported:	01/13/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: EW 4 (H250063-24)

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	01/09/2025	ND	1.76	87.8	2.00	2.71	
Toluene*	<0.050	0.050	01/09/2025	ND	1.82	91.2	2.00	1.99	
Ethylbenzene*	<0.050	0.050	01/09/2025	ND	1.85	92.7	2.00	1.22	
Total Xylenes*	<0.150	0.150	01/09/2025	ND	5.67	94.4	6.00	1.29	
Total BTEX	<0.300	0.300	01/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	01/08/2025	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	01/08/2025	ND	176	88.1	200	3.02	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	179	89.6	200	6.82	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/07/2025	Sampling Date:	01/07/2025
Reported:	01/13/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: WW 5 (H250063-25)

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	01/09/2025	ND	1.76	87.8	2.00	2.71	
Toluene*	<0.050	0.050	01/09/2025	ND	1.82	91.2	2.00	1.99	
Ethylbenzene*	<0.050	0.050	01/09/2025	ND	1.85	92.7	2.00	1.22	
Total Xylenes*	<0.150	0.150	01/09/2025	ND	5.67	94.4	6.00	1.29	
Total BTEX	<0.300	0.300	01/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	432	16.0	01/08/2025	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	01/08/2025	ND	176	88.1	200	3.02	
DRO >C10-C28*	<10.0	10.0	01/08/2025	ND	179	89.6	200	6.82	
EXT DRO >C28-C36	<10.0	10.0	01/08/2025	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																				
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>																				
Address: 2617 West Marland				Company: Mewbourne																								
City: Hobbs		State: NM		Zip: 88240		Attn: Connor Walker																						
Phone #: (575) 264-9884		Fax #:		Address:																								
Project #: 21446		Project Owner: Mewbourne		City:																								
Project Name: Archduke 19 W2AP Fed Com #1H				State: Zip:																								
Project Location: 32.20955, -104.22248				Phone #:																								
Sampler Name: Aaron Rios				Fax #:																								
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	GRAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.	SAMPLING																			
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME													
	H2500623															X	X	X										
	1	FL 131 @ 1'	C	1			X				X			1/7/25		X	X	X										
	2	FL 132 @ 1'	C	1			X				X			1/7/25		X	X	X										
	3	FL 133 @ 1'	C	1			X				X			1/7/25		X	X	X										
	4	FL 134 @ 1'	C	1			X				X			1/7/25		X	X	X										
	5	FL 135 @ 1'	C	1			X				X			1/7/25		X	X	X										
	6	FL 136 @ 1'	C	1			X				X			1/7/25		X	X	X										
	7	FL 137 @ 1'	C	1			X				X			1/7/25		X	X	X										
	8	FL 138 @ 1'	C	1			X				X			1/7/25		X	X	X										
	9	FL 139 @ 1'	C	1			X				X			1/7/25		X	X	X										
	10	FL 140 @ 1'	C	1			X				X			1/7/25		X	X	X										

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Relinquished By:		Date: 1-7-25	Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Time: 1500	Received By:		All Results are emailed. Please provide Email address: pm@etechnv.com	
Delivered By: (Circle One)		Observed Temp. °C -29C	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Corrected Temp. °C -35C	<input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	
					Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	
					Thermometer ID #140 Correction Factor -0.6°C	



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 #: 21446		Project Owner: Mewbourne		City:																								
Project Name: Archduke 19 W2AP Fed Com #1H				State: Zip:																								
Project Location: 32.20955, -104.22248				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										
	H250063																											
	11	FL 141 @ 1'	C	1			X				X			1/7/25		X	X	X										
	12	FL 142 @ 1'	C	1			X				X			1/7/25		X	X	X										
	13	FL 143 @ 1'	C	1			X				X			1/7/25		X	X	X										
	14	FL 144 @ 1'	C	1			X				X			1/7/25		X	X	X										
	15	FL 145 @ 1'	C	1			X				X			1/7/25		X	X	X										
	16	FL 146 @ 1'	C	1			X				X			1/7/25		X	X	X										
	17	FL 147 @ 1'	C	1			X				X			1/7/25		X	X	X										
	18	FL 148 @ 2'	C	1			X				X			1/7/25		X	X	X										
	19	FL 149 @ 1'	C	1			X				X			1/7/25		X	X	X										
	20	FL 150 @ 1'	C	1			X				X			1/7/25		X	X	X										

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Relinquished By:		Date: 1-7-25	Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:			
Time: 1500				All Results are emailed. Please provide Email address: pm@etechnv.com						
Relinquished By:		Date:	Received By:		REMARKS:					
Time:										
Delivered By: (Circle One)		Observed Temp. °C: -29.2	Sample Condition		CHECKED BY: (Initials)		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: -35.2	<input type="checkbox"/> Cool <input type="checkbox"/> Intact				Thermometer ID #140		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
			<input type="checkbox"/> Yes <input type="checkbox"/> No				Correction Factor -0.6°C		Observed Temp. °C	
			<input type="checkbox"/> No <input type="checkbox"/> No						Corrected Temp. °C	



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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 style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>																		
Address: 2617 West Marland				Company: Mewbourne																						
City: Hobbs		State: NM		Zip: 88240		Attn: Connor Walker																				
Phone #: (575) 264-9884		Fax #:		Address:																						
Project #: 21446		Project Owner: Mewbourne		City:																						
Project Name: Archduke 19 W2AP Fed Com #1H				State: Zip:																						
Project Location: 32.20955, -104.22248				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											
	1250063															X	X	X								
	21	FL 151 @ 1'	C	1			X							1/7/25		X	X	X								
	22	NW 3	C	1			X							1/7/25		X	X	X								
	23	EW 3	C	1			X							1/7/25		X	X	X								
	24	EW 4	C	1			X							1/7/25		X	X	X								
	25	WW 5	C	1			X							1/7/25		X	X	X								

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Relinquished By: <i>[Signature]</i>		Date: 1-7-25	Received By: <i>[Signature]</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Time: 1502	Received By:		All Results are emailed. Please provide Email address: pm@etechnv.com	
Delivered By: (Circle One)		Observed Temp. °C: -2.9	Sample Condition		CHECKED BY: (Initials) <i>[Signature]</i>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: -3.5	Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	
					Thermometer ID #140 Correction Factor -0.6°C	
					Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C	



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

January 14, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ARCHDUKE 19 W2AP FED COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 01/08/25 15:04.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/08/2025	Sampling Date:	01/08/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 152 @ 1' (H250090-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2025	ND	1.76	87.9	2.00	6.19	
Toluene*	<0.050	0.050	01/09/2025	ND	1.89	94.7	2.00	5.47	
Ethylbenzene*	<0.050	0.050	01/09/2025	ND	1.94	97.0	2.00	5.28	
Total Xylenes*	<0.150	0.150	01/09/2025	ND	5.79	96.4	6.00	5.33	
Total BTEX	<0.300	0.300	01/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/09/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2025	ND	207	104	200	2.16	
DRO >C10-C28*	<10.0	10.0	01/10/2025	ND	182	91.2	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	01/10/2025	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.1 % 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:	01/08/2025	Sampling Date:	01/08/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 153 @ 1' (H250090-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2025	ND	1.76	87.9	2.00	6.19	
Toluene*	<0.050	0.050	01/09/2025	ND	1.89	94.7	2.00	5.47	
Ethylbenzene*	<0.050	0.050	01/09/2025	ND	1.94	97.0	2.00	5.28	
Total Xylenes*	<0.150	0.150	01/09/2025	ND	5.79	96.4	6.00	5.33	
Total BTEX	<0.300	0.300	01/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	01/09/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2025	ND	175	87.3	200	0.535	
DRO >C10-C28*	<10.0	10.0	01/09/2025	ND	173	86.6	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	01/09/2025	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/08/2025	Sampling Date:	01/08/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 154 @ 1' (H250090-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2025	ND	1.76	87.9	2.00	6.19	
Toluene*	<0.050	0.050	01/09/2025	ND	1.89	94.7	2.00	5.47	
Ethylbenzene*	<0.050	0.050	01/09/2025	ND	1.94	97.0	2.00	5.28	
Total Xylenes*	<0.150	0.150	01/09/2025	ND	5.79	96.4	6.00	5.33	
Total BTEX	<0.300	0.300	01/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/09/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2025	ND	175	87.3	200	0.535	
DRO >C10-C28*	<10.0	10.0	01/09/2025	ND	173	86.6	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	01/09/2025	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/08/2025	Sampling Date:	01/08/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 155 @ 1' (H250090-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2025	ND	1.76	87.9	2.00	6.19	
Toluene*	<0.050	0.050	01/09/2025	ND	1.89	94.7	2.00	5.47	
Ethylbenzene*	<0.050	0.050	01/09/2025	ND	1.94	97.0	2.00	5.28	
Total Xylenes*	<0.150	0.150	01/09/2025	ND	5.79	96.4	6.00	5.33	
Total BTEX	<0.300	0.300	01/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/09/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2025	ND	175	87.3	200	0.535	
DRO >C10-C28*	<10.0	10.0	01/09/2025	ND	173	86.6	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	01/09/2025	ND					

Surrogate: 1-Chlorooctane 93.3 % 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:	01/08/2025	Sampling Date:	01/08/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 156 @ 1' (H250090-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2025	ND	1.76	87.9	2.00	6.19	
Toluene*	<0.050	0.050	01/09/2025	ND	1.89	94.7	2.00	5.47	
Ethylbenzene*	<0.050	0.050	01/09/2025	ND	1.94	97.0	2.00	5.28	
Total Xylenes*	<0.150	0.150	01/09/2025	ND	5.79	96.4	6.00	5.33	
Total BTEX	<0.300	0.300	01/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/09/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2025	ND	175	87.3	200	0.535	
DRO >C10-C28*	<10.0	10.0	01/09/2025	ND	173	86.6	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	01/09/2025	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 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:	01/08/2025	Sampling Date:	01/08/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 157 @ 1' (H250090-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2025	ND	1.76	87.9	2.00	6.19	
Toluene*	<0.050	0.050	01/09/2025	ND	1.89	94.7	2.00	5.47	
Ethylbenzene*	<0.050	0.050	01/09/2025	ND	1.94	97.0	2.00	5.28	
Total Xylenes*	<0.150	0.150	01/09/2025	ND	5.79	96.4	6.00	5.33	
Total BTEX	<0.300	0.300	01/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/09/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2025	ND	175	87.3	200	0.535	
DRO >C10-C28*	<10.0	10.0	01/09/2025	ND	173	86.6	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	01/09/2025	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/08/2025	Sampling Date:	01/08/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 158 @ 1' (H250090-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2025	ND	1.76	87.9	2.00	6.19	
Toluene*	<0.050	0.050	01/09/2025	ND	1.89	94.7	2.00	5.47	
Ethylbenzene*	<0.050	0.050	01/09/2025	ND	1.94	97.0	2.00	5.28	
Total Xylenes*	<0.150	0.150	01/09/2025	ND	5.79	96.4	6.00	5.33	
Total BTEX	<0.300	0.300	01/09/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/09/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2025	ND	175	87.3	200	0.535	
DRO >C10-C28*	<10.0	10.0	01/09/2025	ND	173	86.6	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	01/09/2025	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/08/2025	Sampling Date:	01/08/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 159 @ 1' (H250090-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2025	ND	1.76	87.9	2.00	6.19	
Toluene*	<0.050	0.050	01/09/2025	ND	1.89	94.7	2.00	5.47	
Ethylbenzene*	<0.050	0.050	01/09/2025	ND	1.94	97.0	2.00	5.28	
Total Xylenes*	<0.150	0.150	01/09/2025	ND	5.79	96.4	6.00	5.33	
Total BTEX	<0.300	0.300	01/09/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/09/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2025	ND	175	87.3	200	0.535	
DRO >C10-C28*	<10.0	10.0	01/09/2025	ND	173	86.6	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	01/09/2025	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Analytical Results For:

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

Received:	01/08/2025	Sampling Date:	01/08/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 160 @ 1' (H250090-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2025	ND	1.79	89.6	2.00	12.8	QM-07, QR-03
Toluene*	<0.050	0.050	01/10/2025	ND	1.94	96.8	2.00	14.5	QM-07, QR-03
Ethylbenzene*	<0.050	0.050	01/10/2025	ND	1.89	94.3	2.00	14.5	QM-07, QR-03
Total Xylenes*	<0.150	0.150	01/10/2025	ND	5.55	92.5	6.00	15.1	QM-07, QR-03
Total BTEX	<0.300	0.300	01/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/09/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2025	ND	175	87.3	200	0.535	
DRO >C10-C28*	<10.0	10.0	01/09/2025	ND	173	86.6	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	01/09/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/08/2025	Sampling Date:	01/08/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 161 @ 1' (H250090-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2025	ND	1.79	89.6	2.00	12.8	
Toluene*	<0.050	0.050	01/10/2025	ND	1.94	96.8	2.00	14.5	
Ethylbenzene*	<0.050	0.050	01/10/2025	ND	1.89	94.3	2.00	14.5	
Total Xylenes*	<0.150	0.150	01/10/2025	ND	5.55	92.5	6.00	15.1	
Total BTEX	<0.300	0.300	01/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/09/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2025	ND	175	87.3	200	0.535	
DRO >C10-C28*	<10.0	10.0	01/09/2025	ND	173	86.6	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	01/09/2025	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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:	01/08/2025	Sampling Date:	01/08/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 162 @ 1' (H250090-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2025	ND	1.79	89.6	2.00	12.8	
Toluene*	<0.050	0.050	01/10/2025	ND	1.94	96.8	2.00	14.5	
Ethylbenzene*	<0.050	0.050	01/10/2025	ND	1.89	94.3	2.00	14.5	
Total Xylenes*	<0.150	0.150	01/10/2025	ND	5.55	92.5	6.00	15.1	
Total BTEX	<0.300	0.300	01/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/09/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2025	ND	175	87.3	200	0.535	
DRO >C10-C28*	<10.0	10.0	01/09/2025	ND	173	86.6	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	01/09/2025	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/08/2025	Sampling Date:	01/08/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 163 @ 2' (H250090-12)

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	01/10/2025	ND	1.79	89.6	2.00	12.8	
Toluene*	<0.050	0.050	01/10/2025	ND	1.94	96.8	2.00	14.5	
Ethylbenzene*	<0.050	0.050	01/10/2025	ND	1.89	94.3	2.00	14.5	
Total Xylenes*	<0.150	0.150	01/10/2025	ND	5.55	92.5	6.00	15.1	
Total BTEX	<0.300	0.300	01/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/09/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2025	ND	175	87.3	200	0.535	
DRO >C10-C28*	<10.0	10.0	01/09/2025	ND	173	86.6	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	01/09/2025	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 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:	01/08/2025	Sampling Date:	01/08/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 164 @ 2' (H250090-13)

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	01/10/2025	ND	1.79	89.6	2.00	12.8	
Toluene*	<0.050	0.050	01/10/2025	ND	1.94	96.8	2.00	14.5	
Ethylbenzene*	<0.050	0.050	01/10/2025	ND	1.89	94.3	2.00	14.5	
Total Xylenes*	<0.150	0.150	01/10/2025	ND	5.55	92.5	6.00	15.1	
Total BTEX	<0.300	0.300	01/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/09/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2025	ND	175	87.3	200	0.535	
DRO >C10-C28*	<10.0	10.0	01/09/2025	ND	173	86.6	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	01/09/2025	ND					

Surrogate: 1-Chlorooctane 98.1 % 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:	01/08/2025	Sampling Date:	01/08/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 165 @ 1' (H250090-14)

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	01/10/2025	ND	1.79	89.6	2.00	12.8	
Toluene*	<0.050	0.050	01/10/2025	ND	1.94	96.8	2.00	14.5	
Ethylbenzene*	<0.050	0.050	01/10/2025	ND	1.89	94.3	2.00	14.5	
Total Xylenes*	<0.150	0.150	01/10/2025	ND	5.55	92.5	6.00	15.1	
Total BTEX	<0.300	0.300	01/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/09/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2025	ND	175	87.3	200	0.535	
DRO >C10-C28*	<10.0	10.0	01/09/2025	ND	173	86.6	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	01/09/2025	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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

Analytical Results For:

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

Received:	01/08/2025	Sampling Date:	01/08/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 166 @ 1' (H250090-15)

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	01/10/2025	ND	1.79	89.6	2.00	12.8	
Toluene*	<0.050	0.050	01/10/2025	ND	1.94	96.8	2.00	14.5	
Ethylbenzene*	<0.050	0.050	01/10/2025	ND	1.89	94.3	2.00	14.5	
Total Xylenes*	<0.150	0.150	01/10/2025	ND	5.55	92.5	6.00	15.1	
Total BTEX	<0.300	0.300	01/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 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	01/09/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2025	ND	175	87.3	200	0.535	
DRO >C10-C28*	<10.0	10.0	01/09/2025	ND	173	86.6	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	01/09/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received:	01/08/2025	Sampling Date:	01/08/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 167 @ 1' (H250090-16)

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	01/10/2025	ND	1.79	89.6	2.00	12.8	
Toluene*	<0.050	0.050	01/10/2025	ND	1.94	96.8	2.00	14.5	
Ethylbenzene*	<0.050	0.050	01/10/2025	ND	1.89	94.3	2.00	14.5	
Total Xylenes*	<0.150	0.150	01/10/2025	ND	5.55	92.5	6.00	15.1	
Total BTEX	<0.300	0.300	01/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 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	48.0	16.0	01/09/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2025	ND	175	87.3	200	0.535	
DRO >C10-C28*	<10.0	10.0	01/09/2025	ND	173	86.6	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	01/09/2025	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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:	01/08/2025	Sampling Date:	01/08/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: NW 4 (H250090-17)

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	01/10/2025	ND	1.79	89.6	2.00	12.8	
Toluene*	<0.050	0.050	01/10/2025	ND	1.94	96.8	2.00	14.5	
Ethylbenzene*	<0.050	0.050	01/10/2025	ND	1.89	94.3	2.00	14.5	
Total Xylenes*	<0.150	0.150	01/10/2025	ND	5.55	92.5	6.00	15.1	
Total BTEX	<0.300	0.300	01/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/09/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2025	ND	175	87.3	200	0.535	
DRO >C10-C28*	<10.0	10.0	01/09/2025	ND	173	86.6	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	01/09/2025	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 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:	01/08/2025	Sampling Date:	01/08/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: NW 5 (H250090-18)

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	01/10/2025	ND	1.79	89.6	2.00	12.8	
Toluene*	<0.050	0.050	01/10/2025	ND	1.94	96.8	2.00	14.5	
Ethylbenzene*	<0.050	0.050	01/10/2025	ND	1.89	94.3	2.00	14.5	
Total Xylenes*	<0.150	0.150	01/10/2025	ND	5.55	92.5	6.00	15.1	
Total BTEX	<0.300	0.300	01/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/09/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2025	ND	175	87.3	200	0.535	
DRO >C10-C28*	<10.0	10.0	01/09/2025	ND	173	86.6	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	01/09/2025	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/08/2025	Sampling Date:	01/08/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: EW 5 (H250090-19)

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	01/10/2025	ND	1.79	89.6	2.00	12.8		
Toluene*	<0.050	0.050	01/10/2025	ND	1.94	96.8	2.00	14.5		
Ethylbenzene*	<0.050	0.050	01/10/2025	ND	1.89	94.3	2.00	14.5		
Total Xylenes*	<0.150	0.150	01/10/2025	ND	5.55	92.5	6.00	15.1		
Total BTEX	<0.300	0.300	01/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 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	208	16.0	01/09/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/09/2025	ND	175	87.3	200	0.535		
DRO >C10-C28*	<10.0	10.0	01/09/2025	ND	173	86.6	200	1.09		
EXT DRO >C28-C36	<10.0	10.0	01/09/2025	ND						

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/08/2025	Sampling Date:	01/08/2025
Reported:	01/14/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: SW 5 (H250090-20)

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	01/10/2025	ND	1.79	89.6	2.00	12.8	
Toluene*	<0.050	0.050	01/10/2025	ND	1.94	96.8	2.00	14.5	
Ethylbenzene*	<0.050	0.050	01/10/2025	ND	1.89	94.3	2.00	14.5	
Total Xylenes*	<0.150	0.150	01/10/2025	ND	5.55	92.5	6.00	15.1	
Total BTEX	<0.300	0.300	01/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/09/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2025	ND	175	87.3	200	0.535	
DRO >C10-C28*	<10.0	10.0	01/09/2025	ND	173	86.6	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	01/09/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental & Safety Solutions, Inc.
Project Manager: Lance Crenshaw
Address: 2617 West Marland
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 21446 Project Owner: Mewbourne
Project Name: Archduke 19 W2AP Fed Com #1H
Project Location: 32.20955, -104.22248
Sampler Name: Aaron Rios
BILL TO
P.O. #:
Company: Mewbourne
Attn: Connor Walker
Address:
City:
State: Zip:
Phone #:
Fax #:
ANALYSIS REQUEST
Chloride
TPH (8015M)
BTEX (8021B)

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.

Relinquished By: [Signature] Date: 1-8-25 Time: 1504
Received By: [Signature] Verbal Result: [] Yes [] No Add'l Phone #:
All Results are emailed. Please provide Email address: pm@etechenv.com
REMARKS:
Delivered By: (Circle One) Observed Temp. °C -8.42 Sample Condition Cool Intact [] Yes [] No [] No [] No
Checked By: (Initials) Turnaround Time: Standard [] Rush [X] Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
Corrected Temp. °C -9.0 Thermometer ID #140 Correction Factor -0.6°C [] Yes [] No [] No [] No Corrected Temp. °C



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Form containing company information (Etech Environmental & Safety Solutions, Inc.), project details (Project Manager: Lance Crenshaw), and a table of analysis requests with columns for Lab I.D., Sample I.D., Matrix, Preserv., Sampling, and various chemical parameters (Chloride, TPH, BTEX).

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.

Form for Relinquished By/Received By, Verbal Result, Remarks, and Delivered By information, including fields for Date, Time, Observed Temp., and Sample Condition.



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

January 16, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ARCHDUKE 19 W2AP FED COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 01/13/25 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 168 @ 2' (H250157-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/15/2025	ND	1.95	97.6	2.00	1.78		
Toluene*	<0.050	0.050	01/15/2025	ND	2.09	105	2.00	1.32		
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.15	107	2.00	0.706		
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.48	108	6.00	1.01		
Total BTEX	<0.300	0.300	01/15/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	01/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	186	92.9	200	2.84		
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	194	97.2	200	1.91		
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND						

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 169 @ 2' (H250157-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2025	ND	1.95	97.6	2.00	1.78	
Toluene*	<0.050	0.050	01/15/2025	ND	2.09	105	2.00	1.32	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.15	107	2.00	0.706	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.48	108	6.00	1.01	
Total BTEX	<0.300	0.300	01/15/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	01/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	186	92.9	200	2.84	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	194	97.2	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 170 @ 2' (H250157-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2025	ND	1.95	97.6	2.00	1.78	
Toluene*	<0.050	0.050	01/15/2025	ND	2.09	105	2.00	1.32	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.15	107	2.00	0.706	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.48	108	6.00	1.01	
Total BTEX	<0.300	0.300	01/15/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	186	92.9	200	2.84	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	194	97.2	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 171 @ 2' (H250157-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	1.70	85.0	2.00	7.53	QM-07, QR-03
Toluene*	<0.050	0.050	01/14/2025	ND	1.83	91.6	2.00	5.83	QM-07, QR-03
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	1.86	93.2	2.00	4.81	QM-07, QR-03
Total Xylenes*	<0.150	0.150	01/14/2025	ND	5.54	92.3	6.00	4.61	QM-07, QR-03
Total BTEX	<0.300	0.300	01/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	186	92.9	200	2.84	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	194	97.2	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 172 @ 2' (H250157-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	1.70	85.0	2.00	7.53	
Toluene*	<0.050	0.050	01/14/2025	ND	1.83	91.6	2.00	5.83	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	1.86	93.2	2.00	4.81	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	5.54	92.3	6.00	4.61	
Total BTEX	<0.300	0.300	01/14/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	206	103	200	10.3	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	184	91.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 173 @ 2' (H250157-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	1.70	85.0	2.00	7.53	
Toluene*	<0.050	0.050	01/14/2025	ND	1.83	91.6	2.00	5.83	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	1.86	93.2	2.00	4.81	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	5.54	92.3	6.00	4.61	
Total BTEX	<0.300	0.300	01/14/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	206	103	200	10.3	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	184	91.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 49.1-148

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Analytical Results For:

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

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 174 @ 2' (H250157-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	1.70	85.0	2.00	7.53	
Toluene*	<0.050	0.050	01/14/2025	ND	1.83	91.6	2.00	5.83	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	1.86	93.2	2.00	4.81	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	5.54	92.3	6.00	4.61	
Total BTEX	<0.300	0.300	01/14/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	01/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	206	103	200	10.3	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	184	91.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 175 @ 2' (H250157-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	1.70	85.0	2.00	7.53	
Toluene*	<0.050	0.050	01/14/2025	ND	1.83	91.6	2.00	5.83	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	1.86	93.2	2.00	4.81	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	5.54	92.3	6.00	4.61	
Total BTEX	<0.300	0.300	01/14/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	01/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	206	103	200	10.3	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	184	91.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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Analytical Results For:

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

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 176 @ 2' (H250157-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	1.70	85.0	2.00	7.53	
Toluene*	<0.050	0.050	01/14/2025	ND	1.83	91.6	2.00	5.83	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	1.86	93.2	2.00	4.81	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	5.54	92.3	6.00	4.61	
Total BTEX	<0.300	0.300	01/14/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	206	103	200	10.3	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	184	91.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 177 @ 2' (H250157-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	1.70	85.0	2.00	7.53	
Toluene*	<0.050	0.050	01/14/2025	ND	1.83	91.6	2.00	5.83	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	1.86	93.2	2.00	4.81	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	5.54	92.3	6.00	4.61	
Total BTEX	<0.300	0.300	01/14/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	206	103	200	10.3	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	184	91.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 178 @ 2' (H250157-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	1.70	85.0	2.00	7.53	
Toluene*	<0.050	0.050	01/14/2025	ND	1.83	91.6	2.00	5.83	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	1.86	93.2	2.00	4.81	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	5.54	92.3	6.00	4.61	
Total BTEX	<0.300	0.300	01/14/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	206	103	200	10.3	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	184	91.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 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:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 179 @ 2' (H250157-12)

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	01/14/2025	ND	1.70	85.0	2.00	7.53	
Toluene*	<0.050	0.050	01/14/2025	ND	1.83	91.6	2.00	5.83	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	1.86	93.2	2.00	4.81	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	5.54	92.3	6.00	4.61	
Total BTEX	<0.300	0.300	01/14/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	206	103	200	10.3	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	184	91.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 180 @ 2' (H250157-13)

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	01/14/2025	ND	1.70	85.0	2.00	7.53	
Toluene*	<0.050	0.050	01/14/2025	ND	1.83	91.6	2.00	5.83	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	1.86	93.2	2.00	4.81	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	5.54	92.3	6.00	4.61	
Total BTEX	<0.300	0.300	01/14/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	206	103	200	10.3	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	184	91.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 105 % 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:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 181 @ 2' (H250157-14)

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	01/14/2025	ND	1.70	85.0	2.00	7.53	
Toluene*	<0.050	0.050	01/14/2025	ND	1.83	91.6	2.00	5.83	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	1.86	93.2	2.00	4.81	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	5.54	92.3	6.00	4.61	
Total BTEX	<0.300	0.300	01/14/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	206	103	200	10.3	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	184	91.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 182 @ 2' (H250157-15)

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	01/15/2025	ND	1.70	85.0	2.00	7.53	
Toluene*	<0.050	0.050	01/15/2025	ND	1.83	91.6	2.00	5.83	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	1.86	93.2	2.00	4.81	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	5.54	92.3	6.00	4.61	
Total BTEX	<0.300	0.300	01/15/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	206	103	200	10.3	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	184	91.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 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:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 183 @ 2' (H250157-16)

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	01/15/2025	ND	1.70	85.0	2.00	7.53	
Toluene*	<0.050	0.050	01/15/2025	ND	1.83	91.6	2.00	5.83	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	1.86	93.2	2.00	4.81	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	5.54	92.3	6.00	4.61	
Total BTEX	<0.300	0.300	01/15/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	206	103	200	10.3	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	184	91.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 184 @ 2' (H250157-17)

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	01/15/2025	ND	1.70	85.0	2.00	7.53	
Toluene*	<0.050	0.050	01/15/2025	ND	1.83	91.6	2.00	5.83	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	1.86	93.2	2.00	4.81	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	5.54	92.3	6.00	4.61	
Total BTEX	<0.300	0.300	01/15/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	206	103	200	10.3	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	184	91.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 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:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 185 @ 2' (H250157-18)

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	01/15/2025	ND	1.70	85.0	2.00	7.53	
Toluene*	<0.050	0.050	01/15/2025	ND	1.83	91.6	2.00	5.83	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	1.86	93.2	2.00	4.81	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	5.54	92.3	6.00	4.61	
Total BTEX	<0.300	0.300	01/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	206	103	200	10.3	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	184	91.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 93.8 % 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:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 186 @ 2' (H250157-19)

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	01/15/2025	ND	1.70	85.0	2.00	7.53	
Toluene*	<0.050	0.050	01/15/2025	ND	1.83	91.6	2.00	5.83	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	1.86	93.2	2.00	4.81	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	5.54	92.3	6.00	4.61	
Total BTEX	<0.300	0.300	01/15/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	206	103	200	10.3	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	184	91.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 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:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 187 @ 2' (H250157-20)

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	01/15/2025	ND	1.70	85.0	2.00	7.53	
Toluene*	<0.050	0.050	01/15/2025	ND	1.83	91.6	2.00	5.83	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	1.86	93.2	2.00	4.81	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	5.54	92.3	6.00	4.61	
Total BTEX	<0.300	0.300	01/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	352	16.0	01/14/2025	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	01/14/2025	ND	206	103	200	10.3	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	184	91.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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Analytical Results For:

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

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 188 @ 2' (H250157-21)

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	01/15/2025	ND	1.70	85.0	2.00	7.53	
Toluene*	<0.050	0.050	01/15/2025	ND	1.83	91.6	2.00	5.83	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	1.86	93.2	2.00	4.81	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	5.54	92.3	6.00	4.61	
Total BTEX	<0.300	0.300	01/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	352	16.0	01/14/2025	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	01/14/2025	ND	206	103	200	10.3	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	184	91.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 189 @ 2' (H250157-22)

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	01/15/2025	ND	1.70	85.0	2.00	7.53	
Toluene*	<0.050	0.050	01/15/2025	ND	1.83	91.6	2.00	5.83	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	1.86	93.2	2.00	4.81	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	5.54	92.3	6.00	4.61	
Total BTEX	<0.300	0.300	01/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	336	16.0	01/14/2025	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	01/14/2025	ND	206	103	200	10.3	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	184	91.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Analytical Results For:

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

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 190 @ 2' (H250157-23)

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	01/15/2025	ND	1.70	85.0	2.00	7.53	
Toluene*	<0.050	0.050	01/15/2025	ND	1.83	91.6	2.00	5.83	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	1.86	93.2	2.00	4.81	GC-NC
Total Xylenes*	<0.150	0.150	01/15/2025	ND	5.54	92.3	6.00	4.61	
Total BTEX	<0.300	0.300	01/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	272	16.0	01/14/2025	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	01/14/2025	ND	206	103	200	10.3	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	184	91.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 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:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 191 @ 2' (H250157-24)

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	01/15/2025	ND	2.12	106	2.00	0.826	QR-03
Toluene*	<0.050	0.050	01/15/2025	ND	2.14	107	2.00	4.61	QR-03
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.27	114	2.00	5.59	QR-03
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.89	115	6.00	5.73	QR-03
Total BTEX	<0.300	0.300	01/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	288	16.0	01/14/2025	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	01/14/2025	ND	206	103	200	10.3	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	184	91.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 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:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 192 @ 2' (H250157-25)

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	01/15/2025	ND	2.12	106	2.00	0.826	
Toluene*	<0.050	0.050	01/15/2025	ND	2.14	107	2.00	4.61	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.27	114	2.00	5.59	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.89	115	6.00	5.73	
Total BTEX	<0.300	0.300	01/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	16.0	16.0	01/14/2025	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	01/14/2025	ND	211	105	200	9.31	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	212	106	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 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:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 193 @ 2' (H250157-26)

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	01/15/2025	ND	2.12	106	2.00	0.826	
Toluene*	<0.050	0.050	01/15/2025	ND	2.14	107	2.00	4.61	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.27	114	2.00	5.59	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.89	115	6.00	5.73	
Total BTEX	<0.300	0.300	01/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	01/14/2025	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	01/14/2025	ND	211	105	200	9.31	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	212	106	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 98.9 % 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:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 194 @ 2' (H250157-27)

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	01/15/2025	ND	2.12	106	2.00	0.826	
Toluene*	<0.050	0.050	01/15/2025	ND	2.14	107	2.00	4.61	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.27	114	2.00	5.59	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.89	115	6.00	5.73	
Total BTEX	<0.300	0.300	01/15/2025	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	224	16.0	01/14/2025	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	01/14/2025	ND	211	105	200	9.31	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	212	106	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 99.9 % 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:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 195 @ 2' (H250157-28)

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	01/15/2025	ND	2.12	106	2.00	0.826	
Toluene*	<0.050	0.050	01/15/2025	ND	2.14	107	2.00	4.61	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.27	114	2.00	5.59	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.89	115	6.00	5.73	
Total BTEX	<0.300	0.300	01/15/2025	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	224	16.0	01/14/2025	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	01/14/2025	ND	211	105	200	9.31	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	212	106	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 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:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 196 @ 2' (H250157-29)

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	01/15/2025	ND	2.12	106	2.00	0.826	
Toluene*	<0.050	0.050	01/15/2025	ND	2.14	107	2.00	4.61	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.27	114	2.00	5.59	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.89	115	6.00	5.73	
Total BTEX	<0.300	0.300	01/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	01/14/2025	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	01/14/2025	ND	211	105	200	9.31	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	212	106	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 197 @ 2' (H250157-30)

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	01/15/2025	ND	2.12	106	2.00	0.826	
Toluene*	<0.050	0.050	01/15/2025	ND	2.14	107	2.00	4.61	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.27	114	2.00	5.59	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.89	115	6.00	5.73	
Total BTEX	<0.300	0.300	01/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	01/14/2025	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	01/14/2025	ND	211	105	200	9.31	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	212	106	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 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:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 198 @ 2' (H250157-31)

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	01/15/2025	ND	2.12	106	2.00	0.826	
Toluene*	<0.050	0.050	01/15/2025	ND	2.14	107	2.00	4.61	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.27	114	2.00	5.59	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.89	115	6.00	5.73	
Total BTEX	<0.300	0.300	01/15/2025	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	48.0	16.0	01/14/2025	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	01/14/2025	ND	211	105	200	9.31	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	212	106	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 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:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 199 @ 2' (H250157-32)

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	01/15/2025	ND	2.12	106	2.00	0.826	
Toluene*	<0.050	0.050	01/15/2025	ND	2.14	107	2.00	4.61	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.27	114	2.00	5.59	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.89	115	6.00	5.73	
Total BTEX	<0.300	0.300	01/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	48.0	16.0	01/14/2025	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	01/14/2025	ND	211	105	200	9.31	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	212	106	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 101 % 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:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 200 @ 2' (H250157-33)

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	01/15/2025	ND	2.12	106	2.00	0.826	
Toluene*	<0.050	0.050	01/15/2025	ND	2.14	107	2.00	4.61	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.27	114	2.00	5.59	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.89	115	6.00	5.73	
Total BTEX	<0.300	0.300	01/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	144	16.0	01/14/2025	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	01/14/2025	ND	211	105	200	9.31	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	212	106	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 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:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 201 @ 2' (H250157-34)

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	01/15/2025	ND	2.12	106	2.00	0.826	
Toluene*	<0.050	0.050	01/15/2025	ND	2.14	107	2.00	4.61	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.27	114	2.00	5.59	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.89	115	6.00	5.73	
Total BTEX	<0.300	0.300	01/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	176	16.0	01/14/2025	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	01/14/2025	ND	211	105	200	9.31	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	212	106	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 202 @ 2' (H250157-35)

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	01/15/2025	ND	2.12	106	2.00	0.826	
Toluene*	<0.050	0.050	01/15/2025	ND	2.14	107	2.00	4.61	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.27	114	2.00	5.59	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.89	115	6.00	5.73	
Total BTEX	<0.300	0.300	01/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	224	16.0	01/14/2025	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	01/14/2025	ND	211	105	200	9.31	
DRO >C10-C28*	13.0	10.0	01/14/2025	ND	212	106	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 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:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 203 @ 2' (H250157-36)

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	01/15/2025	ND	2.12	106	2.00	0.826	
Toluene*	<0.050	0.050	01/15/2025	ND	2.14	107	2.00	4.61	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.27	114	2.00	5.59	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.89	115	6.00	5.73	
Total BTEX	<0.300	0.300	01/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	01/14/2025	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	01/14/2025	ND	211	105	200	9.31	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	212	106	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 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:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 204 @ 2' (H250157-37)

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	01/15/2025	ND	2.12	106	2.00	0.826	
Toluene*	<0.050	0.050	01/15/2025	ND	2.14	107	2.00	4.61	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.27	114	2.00	5.59	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.89	115	6.00	5.73	
Total BTEX	<0.300	0.300	01/15/2025	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	01/14/2025	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	01/14/2025	ND	211	105	200	9.31	
DRO >C10-C28*	10.6	10.0	01/14/2025	ND	212	106	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 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:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 205 @ 2' (H250157-38)

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	01/15/2025	ND	2.12	106	2.00	0.826	
Toluene*	<0.050	0.050	01/15/2025	ND	2.14	107	2.00	4.61	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.27	114	2.00	5.59	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.89	115	6.00	5.73	
Total BTEX	<0.300	0.300	01/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	640	16.0	01/14/2025	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	01/14/2025	ND	211	105	200	9.31	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	212	106	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 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:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 206 @ 2' (H250157-39)

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	01/15/2025	ND	2.12	106	2.00	0.826	
Toluene*	<0.050	0.050	01/15/2025	ND	2.14	107	2.00	4.61	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.27	114	2.00	5.59	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.89	115	6.00	5.73	
Total BTEX	<0.300	0.300	01/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	144	16.0	01/14/2025	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	01/14/2025	ND	211	105	200	9.31	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	212	106	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	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
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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 207 @ 2' (H250157-40)

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	01/15/2025	ND	2.12	106	2.00	0.826	
Toluene*	<0.050	0.050	01/15/2025	ND	2.14	107	2.00	4.61	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.27	114	2.00	5.59	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.89	115	6.00	5.73	
Total BTEX	<0.300	0.300	01/15/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/14/2025	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	01/14/2025	ND	211	105	200	9.31	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	212	106	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 208 @ 2' (H250157-41)

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	01/15/2025	ND	2.12	106	2.00	0.826	
Toluene*	<0.050	0.050	01/15/2025	ND	2.14	107	2.00	4.61	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.27	114	2.00	5.59	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.89	115	6.00	5.73	
Total BTEX	<0.300	0.300	01/15/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/14/2025	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	01/14/2025	ND	211	105	200	9.31	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	212	106	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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Analytical Results For:

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

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 209 @ 2' (H250157-42)

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	01/15/2025	ND	2.12	106	2.00	0.826	
Toluene*	<0.050	0.050	01/15/2025	ND	2.14	107	2.00	4.61	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.27	114	2.00	5.59	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.89	115	6.00	5.73	
Total BTEX	<0.300	0.300	01/15/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/14/2025	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	01/14/2025	ND	211	105	200	9.31	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	212	106	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 210 @ 2' (H250157-43)

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	01/15/2025	ND	2.12	106	2.00	0.826	
Toluene*	<0.050	0.050	01/15/2025	ND	2.14	107	2.00	4.61	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.27	114	2.00	5.59	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.89	115	6.00	5.73	
Total BTEX	<0.300	0.300	01/15/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/14/2025	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	01/14/2025	ND	211	105	200	9.31	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	212	106	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.5 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 211 @ 2' (H250157-44)

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	01/15/2025	ND	2.17	109	2.00	2.28	
Toluene*	<0.050	0.050	01/15/2025	ND	2.26	113	2.00	1.59	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.30	115	2.00	1.82	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	7.07	118	6.00	2.46	
Total BTEX	<0.300	0.300	01/15/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/14/2025	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	01/14/2025	ND	211	105	200	9.31	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	212	106	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 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:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 212 @ 2' (H250157-45)

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	01/15/2025	ND	2.17	109	2.00	2.28	
Toluene*	<0.050	0.050	01/15/2025	ND	2.26	113	2.00	1.59	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.30	115	2.00	1.82	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	7.07	118	6.00	2.46	
Total BTEX	<0.300	0.300	01/15/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/14/2025	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	01/14/2025	ND	192	95.9	200	8.14	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	195	97.5	200	8.98	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.6 % 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:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 213 @ 2' (H250157-46)

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	01/15/2025	ND	2.17	109	2.00	2.28	
Toluene*	<0.050	0.050	01/15/2025	ND	2.26	113	2.00	1.59	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.30	115	2.00	1.82	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	7.07	118	6.00	2.46	
Total BTEX	<0.300	0.300	01/15/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/14/2025	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	01/14/2025	ND	192	95.9	200	8.14	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	195	97.5	200	8.98	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 214 @ 2' (H250157-47)

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	01/15/2025	ND	2.17	109	2.00	2.28	
Toluene*	<0.050	0.050	01/15/2025	ND	2.26	113	2.00	1.59	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.30	115	2.00	1.82	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	7.07	118	6.00	2.46	
Total BTEX	<0.300	0.300	01/15/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/14/2025	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	01/14/2025	ND	192	95.9	200	8.14	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	195	97.5	200	8.98	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 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:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 215 @ 2' (H250157-48)

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	01/15/2025	ND	2.17	109	2.00	2.28	
Toluene*	<0.050	0.050	01/15/2025	ND	2.26	113	2.00	1.59	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.30	115	2.00	1.82	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	7.07	118	6.00	2.46	
Total BTEX	<0.300	0.300	01/15/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/14/2025	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	01/14/2025	ND	192	95.9	200	8.14	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	195	97.5	200	8.98	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/13/2025	Sampling Date:	01/10/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 216 @ 2' (H250157-49)

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	01/15/2025	ND	2.17	109	2.00	2.28	
Toluene*	<0.050	0.050	01/15/2025	ND	2.26	113	2.00	1.59	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.30	115	2.00	1.82	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	7.07	118	6.00	2.46	
Total BTEX	<0.300	0.300	01/15/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/14/2025	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	01/14/2025	ND	192	95.9	200	8.14	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	195	97.5	200	8.98	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Form containing company information (Etech Environmental & Safety Solutions, Inc.), project details (Project Manager: Lance Crenshaw, Project #: 21446), and a table of analysis requests with columns for Lab I.D., Sample I.D., Matrix, Preserv., and Sampling. The table lists samples FL 168 @ 2' through FL 177 @ 2'.

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.

Form for Relinquished By, Received By, Verbal Result, and Turnaround Time. Includes handwritten signatures, dates (1-13-25), and times (1500). Verbal Result: Yes. Turnaround Time: Standard.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Lance Crenshaw Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Project #: 21446 Project Owner: Mewbourne Project Name: Archduke 19 W2AP Fed Com #1H Project Location: 32.20955, -104.22248 Sampler Name: Aaron Rios

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.

Relinquished By: [Signature] Date: 1-13-25 Received By: [Signature] Verbal Result: [X] Yes [] No All Results are emailed. Please provide Email address: pm@etechnv.com



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental & Safety Solutions, Inc.
Project Manager: Lance Crenshaw
Address: 2617 West Marland
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 21446 Project Owner: Mewbourne
Project Name: Archduke 19 W2AP Fed Com #1H
Project Location: 32.20955, -104.22248
Sampler Name: Aaron Rios
BILL TO
ANALYSIS REQUEST
Chloride
TPH (8015M)
BTEX (8021B)

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.

Relinquished By: [Signature] Date: 1-13-25 Time: 1500
Received By: [Signature] Verbal Result: [X] Yes [] No Add'l Phone #:
All Results are emailed. Please provide Email address: pm@etechenv.com
REMARKS:
Delivered By: (Circle One) Observed Temp. °C -9.2
Corrected Temp. °C -9.8
Sample Condition Cool Intact [X] Yes [] No
CHECKED BY: (Initials) [Signature]
Turnaround Time: Standard [] Rush [X]
Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
Thermometer ID #140 Correction Factor -0.6°C



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental & Safety Solutions, Inc.
Project Manager: Lance Crenshaw
Address: 2617 West Marland
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 21446 Project Owner: Mewbourne
Project Name: Archduke 19 W2AP Fed Com #1H
Project Location: 32.20955, -104.22248
Sampler Name: Aaron Rios
BILL TO: P.O. #: Company: Mewbourne Attn: Connor Walker Address: City: State: Zip: Phone #: Fax #:
ANALYSIS REQUEST: Chloride, TPH (8015M), BTEX (8021B)

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.

Relinquished By: [Signature] Date: 1-13-25 Time: 1500
Received By: [Signature] Verbal Result: [] Yes [] No Add'l Phone #:
All Results are emailed. Please provide Email address: pm@etechenv.com
REMARKS:
Delivered By: (Circle One) Observed Temp. °C ~9.2 Sample Condition Cool Intact CHECKED BY: (Initials) Turnaround Time: Standard [X] Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
Corrected Temp. °C ~9.8 [X] Yes [] No [] Yes [] No [] No [] No Corrected Temp. °C



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

January 20, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ARCHDUKE 19 W2AP FED COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 01/14/25 14:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/14/2025	Sampling Date:	01/13/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 114 @ 2' (H250193-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2025	ND	1.92	96.1	2.00	2.92	
Toluene*	<0.050	0.050	01/16/2025	ND	2.08	104	2.00	3.18	
Ethylbenzene*	<0.050	0.050	01/16/2025	ND	2.14	107	2.00	3.08	
Total Xylenes*	<0.150	0.150	01/16/2025	ND	6.38	106	6.00	3.24	
Total BTEX	<0.300	0.300	01/16/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/16/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2025	ND	203	101	200	2.37	
DRO >C10-C28*	<10.0	10.0	01/15/2025	ND	196	97.8	200	0.494	
EXT DRO >C28-C36	<10.0	10.0	01/15/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/14/2025	Sampling Date:	01/13/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 122 @ 2' (H250193-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2025	ND	1.92	96.1	2.00	2.92	
Toluene*	<0.050	0.050	01/16/2025	ND	2.08	104	2.00	3.18	
Ethylbenzene*	<0.050	0.050	01/16/2025	ND	2.14	107	2.00	3.08	
Total Xylenes*	<0.150	0.150	01/16/2025	ND	6.38	106	6.00	3.24	
Total BTEX	<0.300	0.300	01/16/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/16/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2025	ND	203	101	200	2.37	
DRO >C10-C28*	<10.0	10.0	01/15/2025	ND	196	97.8	200	0.494	
EXT DRO >C28-C36	<10.0	10.0	01/15/2025	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

January 17, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ARCHDUKE 19 W2AP FED COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 01/16/25 8:32.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/16/2025	Sampling Date:	01/15/2025
Reported:	01/17/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 153 @ 2' (H250231-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2025	ND	2.08	104	2.00	0.868	
Toluene*	<0.050	0.050	01/16/2025	ND	2.21	110	2.00	0.229	
Ethylbenzene*	<0.050	0.050	01/16/2025	ND	2.25	112	2.00	0.127	
Total Xylenes*	<0.150	0.150	01/16/2025	ND	6.82	114	6.00	0.126	
Total BTEX	<0.300	0.300	01/16/2025	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	192	16.0	01/16/2025	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/16/2025	ND	195	97.7	200	1.29	
DRO >C10-C28*	<10.0	10.0	01/16/2025	ND	199	99.3	200	2.39	
EXT DRO >C28-C36	<10.0	10.0	01/16/2025	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Form containing company information (Etech Environmental & Safety Solutions, Inc.), project details (Archduke 19 W2AP Fed Com #1H), and a table for analysis request with columns for Lab I.D., Sample I.D., Matrix, Preservation, and Sampling. Includes handwritten entry 'H250231' and 'FL 153 @ 2''.

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.

Form for Relinquished/Received By, Date, Time, and Remarks. Includes handwritten signatures and dates, and a circled '24 HOUR RUSH' remark.



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

January 23, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ARCHDUKE 19 W2AP FED COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 01/17/25 15:09.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/17/2025	Sampling Date:	01/16/2025
Reported:	01/23/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: BACKFILL (H250304-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2025	ND	2.05	102	2.00	0.196	
Toluene*	<0.050	0.050	01/22/2025	ND	2.15	107	2.00	2.92	
Ethylbenzene*	<0.050	0.050	01/22/2025	ND	2.31	116	2.00	1.05	
Total Xylenes*	<0.150	0.150	01/22/2025	ND	7.15	119	6.00	0.968	
Total BTEX	<0.300	0.300	01/22/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/21/2025	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	01/22/2025	ND	175	87.7	200	0.636	
DRO >C10-C28*	<10.0	10.0	01/22/2025	ND	178	89.1	200	4.93	
EXT DRO >C28-C36	<10.0	10.0	01/22/2025	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																									
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>																									
Address: 2617 West Marland				Company: Mewbourne																													
City: Hobbs		State: NM		Zip: 88240		Attn: Connor Walker																											
Phone #: (575) 264-9884		Fax #:		Address:																													
Project #: 21446		Project Owner: Mewbourne		City:																													
Project Name: Archduke 19 W2AP Fed Com #1H				State: Zip:																													
Project Location: 32.20955, -104.22248				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															
H250304		Backfill				C	1			X				X			1/16/25		X	X	X												

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:		Date: 1/17/25		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:			
		Time: 1509				All Results are emailed. Please provide Email address: pm@etechnv.com					
Relinquished By:		Date:		Received By:		REMARKS:					
		Time:									
Delivered By: (Circle One)		Observed Temp. °C: 3.4		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials)		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: 4.0		<input type="checkbox"/> Yes <input type="checkbox"/> No				Thermometer ID #140		<input type="checkbox"/> Yes <input type="checkbox"/> No	
								Correction Factor -0.6°C		Corrected Temp. °C	



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

January 22, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ARCHDUKE 19 W2AP FED COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 01/21/25 8:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" 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:	01/21/2025	Sampling Date:	01/17/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 168 @ 3' (H250337-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2025	ND	1.94	97.0	2.00	1.52	
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74	
Total BTEX	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/21/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	208	104	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/21/2025	Sampling Date:	01/17/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 169 @ 3' (H250337-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2025	ND	1.94	97.0	2.00	1.52	
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74	
Total BTEX	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/21/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	208	104	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/21/2025	Sampling Date:	01/17/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCHDUKE 19 W2AP FED COM #1H	Sampling Condition:	Cool & Intact
Project Number:	21446	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.20955,-104.22248		

Sample ID: FL 205 @ 4' (H250337-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2025	ND	1.94	97.0	2.00	1.52	
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74	
Total BTEX	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/21/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2025	ND	208	104	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Form containing company information (Etech Environmental & Safety Solutions, Inc.), project details (Project Manager: Lance Crenshaw, Project #: 21446), and a table for analysis results with columns for Lab I.D., Sample I.D., Matrix, Preservation, and Sampling.

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.

Form for signature and results, including 'Relinquished By', 'Received By', 'Verbal Result', 'REMARKS' (24 HOUR RUSH), and 'Delivered By' section with temperature and condition data.

Appendix E

Regulatory Correspondence

From: OCDOnline@state.nm.us
To: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 406034
Date: Friday, November 22, 2024 7:21:09 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432631996.

The sampling event is expected to take place:

When: 11/27/2024 @ 07:30

Where: A-19-24S-27E 0 FNL 0 FEL (32.20955,-104.22248)

Additional Information: Jeff Broom, 575.605.6908

Additional Instructions: From the intersection of Co Rd 720 and Co Rd 748 (32.231743, -104.221095), head S on Co Rd 748 for 1.60 mi, then W for 0.01 mi, then WNW across the pad for 0.04 mi to arrive at the Archduke 19 W2AP Fed Com 1H Battery release area (32.209723, -104.222393).

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: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 406035
Date: Friday, November 22, 2024 7:24:49 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432631996.

The sampling event is expected to take place:

When: 12/02/2024 @ 07:30

Where: A-19-24S-27E 0 FNL 0 FEL (32.20955,-104.22248)

Additional Information: Jeff Broom, 575.605.6908

Additional Instructions: From the intersection of Co Rd 720 and Co Rd 748 (32.231743, -104.221095), head S on Co Rd 748 for 1.60 mi, then W for 0.01 mi, then WNW across the pad for 0.04 mi to arrive at the Archduke 19 W2AP Fed Com 1H Battery release area (32.209723, -104.222393).

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: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 406036
Date: Friday, November 22, 2024 7:33:06 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432631996.

The sampling event is expected to take place:

When: 12/03/2024 @ 07:30

Where: A-19-24S-27E 0 FNL 0 FEL (32.20955,-104.22248)

Additional Information: Jeff Broom, 575.605.6908

Additional Instructions: From the intersection of Co Rd 720 and Co Rd 748 (32.231743, -104.221095), head S on Co Rd 748 for 1.60 mi, then W for 0.01 mi, then WNW across the pad for 0.04 mi to arrive at the Archduke 19 W2AP Fed Com 1H Battery release area (32.209723, -104.222393).

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: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 406037
Date: Friday, November 22, 2024 7:36:58 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432631996.

The sampling event is expected to take place:

When: 12/04/2024 @ 07:30

Where: A-19-24S-27E 0 FNL 0 FEL (32.20955,-104.22248)

Additional Information: Jeff Broom, 575.605.6908

Additional Instructions: From the intersection of Co Rd 720 and Co Rd 748 (32.231743, -104.221095), head S on Co Rd 748 for 1.60 mi, then W for 0.01 mi, then WNW across the pad for 0.04 mi to arrive at the Archduke 19 W2AP Fed Com 1H Battery release area (32.209723, -104.222393).

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: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 406038
Date: Friday, November 22, 2024 7:41:32 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432631996.

The sampling event is expected to take place:

When: 12/05/2024 @ 07:30

Where: A-19-24S-27E 0 FNL 0 FEL (32.20955,-104.22248)

Additional Information: Jeff Broom, 575.605.6908

Additional Instructions: From the intersection of Co Rd 720 and Co Rd 748 (32.231743, -104.221095), head S on Co Rd 748 for 1.60 mi, then W for 0.01 mi, then WNW across the pad for 0.04 mi to arrive at the Archduke 19 W2AP Fed Com 1H Battery release area (32.209723, -104.222393).

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: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 406039
Date: Friday, November 22, 2024 7:44:41 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432631996.

The sampling event is expected to take place:

When: 12/06/2024 @ 07:30

Where: A-19-24S-27E 0 FNL 0 FEL (32.20955,-104.22248)

Additional Information: Jeff Broom, 575.605.6908

Additional Instructions: From the intersection of Co Rd 720 and Co Rd 748 (32.231743, -104.221095), head S on Co Rd 748 for 1.60 mi, then W for 0.01 mi, then WNW across the pad for 0.04 mi to arrive at the Archduke 19 W2AP Fed Com 1H Battery release area (32.209723, -104.222393).

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: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 411166
Date: Thursday, December 12, 2024 12:05:37 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432631996.

The sampling event is expected to take place:

When: 12/16/2024 @ 07:30

Where: A-19-24S-27E 0 FNL 0 FEL (32.20955,-104.22248)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of Co Rd 720 and Co Rd 748 (32.231743, -104.221095), head S on Co Rd 748 for 1.60 mi, then W for 0.01 mi, then WNW across the pad for 0.04 mi to arrive at the Archduke 19 W2AP Fed Com 1H Battery release area (32.209723, -104.222393).

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: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 411170
Date: Thursday, December 12, 2024 12:07:58 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432631996.

The sampling event is expected to take place:

When: 12/17/2024 @ 07:30

Where: A-19-24S-27E 0 FNL 0 FEL (32.20955,-104.22248)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of Co Rd 720 and Co Rd 748 (32.231743, -104.221095), head S on Co Rd 748 for 1.60 mi, then W for 0.01 mi, then WNW across the pad for 0.04 mi to arrive at the Archduke 19 W2AP Fed Com 1H Battery release area (32.209723, -104.222393).

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: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 411172
Date: Thursday, December 12, 2024 12:15:45 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432631996.

The sampling event is expected to take place:

When: 12/18/2024 @ 07:30

Where: A-19-24S-27E 0 FNL 0 FEL (32.20955,-104.22248)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of Co Rd 720 and Co Rd 748 (32.231743, -104.221095), head S on Co Rd 748 for 1.60 mi, then W for 0.01 mi, then WNW across the pad for 0.04 mi to arrive at the Archduke 19 W2AP Fed Com 1H Battery release area (32.209723, -104.222393).

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: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 411189
Date: Thursday, December 12, 2024 12:39:28 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432631996.

The sampling event is expected to take place:

When: 12/19/2024 @ 07:30

Where: A-19-24S-27E 0 FNL 0 FEL (32.20955,-104.22248)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of Co Rd 720 and Co Rd 748 (32.231743, -104.221095), head S on Co Rd 748 for 1.60 mi, then W for 0.01 mi, then WNW across the pad for 0.04 mi to arrive at the Archduke 19 W2AP Fed Com 1H Battery release area (32.209723, -104.222393).

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: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 411192
Date: Thursday, December 12, 2024 12:41:31 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432631996.

The sampling event is expected to take place:

When: 12/20/2024 @ 07:30

Where: A-19-24S-27E 0 FNL 0 FEL (32.20955,-104.22248)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of Co Rd 720 and Co Rd 748 (32.231743, -104.221095), head S on Co Rd 748 for 1.60 mi, then W for 0.01 mi, then WNW across the pad for 0.04 mi to arrive at the Archduke 19 W2AP Fed Com 1H Battery release area (32.209723, -104.222393).

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: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 411194
Date: Thursday, December 12, 2024 12:43:51 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432631996.

The sampling event is expected to take place:

When: 12/23/2024 @ 07:30

Where: A-19-24S-27E 0 FNL 0 FEL (32.20955,-104.22248)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of Co Rd 720 and Co Rd 748 (32.231743, -104.221095), head S on Co Rd 748 for 1.60 mi, then W for 0.01 mi, then WNW across the pad for 0.04 mi to arrive at the Archduke 19 W2AP Fed Com 1H Battery release area (32.209723, -104.222393).

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: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 411195
Date: Thursday, December 12, 2024 12:45:59 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432631996.

The sampling event is expected to take place:

When: 12/26/2024 @ 07:30

Where: A-19-24S-27E 0 FNL 0 FEL (32.20955,-104.22248)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of Co Rd 720 and Co Rd 748 (32.231743, -104.221095), head S on Co Rd 748 for 1.60 mi, then W for 0.01 mi, then WNW across the pad for 0.04 mi to arrive at the Archduke 19 W2AP Fed Com 1H Battery release area (32.209723, -104.222393).

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: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 411197
Date: Thursday, December 12, 2024 12:47:59 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432631996.

The sampling event is expected to take place:

When: 12/27/2024 @ 07:30

Where: A-19-24S-27E 0 FNL 0 FEL (32.20955,-104.22248)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of Co Rd 720 and Co Rd 748 (32.231743, -104.221095), head S on Co Rd 748 for 1.60 mi, then W for 0.01 mi, then WNW across the pad for 0.04 mi to arrive at the Archduke 19 W2AP Fed Com 1H Battery release area (32.209723, -104.222393).

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: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 416432
Date: Thursday, January 2, 2025 12:43:09 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432631996.

The sampling event is expected to take place:

When: 01/06/2025 @ 07:30

Where: A-19-24S-27E 0 FNL 0 FEL (32.20955,-104.22248)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of Co Rd 720 and Co Rd 748 (32.231743, -104.221095), head S on Co Rd 748 for 1.60 mi, then W for 0.01 mi, then WNW across the pad for 0.04 mi to arrive at the Archduke 19 W2AP Fed Com 1H Battery release area (32.209723, -104.222393).

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: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 416436
Date: Thursday, January 2, 2025 12:44:57 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432631996.

The sampling event is expected to take place:

When: 01/07/2025 @ 07:30

Where: A-19-24S-27E 0 FNL 0 FEL (32.20955,-104.22248)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of Co Rd 720 and Co Rd 748 (32.231743, -104.221095), head S on Co Rd 748 for 1.60 mi, then W for 0.01 mi, then WNW across the pad for 0.04 mi to arrive at the Archduke 19 W2AP Fed Com 1H Battery release area (32.209723, -104.222393).

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: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 416437
Date: Thursday, January 2, 2025 12:47:06 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432631996.

The sampling event is expected to take place:

When: 01/08/2025 @ 07:30

Where: A-19-24S-27E 0 FNL 0 FEL (32.20955,-104.22248)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of Co Rd 720 and Co Rd 748 (32.231743, -104.221095), head S on Co Rd 748 for 1.60 mi, then W for 0.01 mi, then WNW across the pad for 0.04 mi to arrive at the Archduke 19 W2AP Fed Com 1H Battery release area (32.209723, -104.222393).

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: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 416439
Date: Thursday, January 2, 2025 12:49:08 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432631996.

The sampling event is expected to take place:

When: 01/09/2025 @ 07:30

Where: A-19-24S-27E 0 FNL 0 FEL (32.20955,-104.22248)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of Co Rd 720 and Co Rd 748 (32.231743, -104.221095), head S on Co Rd 748 for 1.60 mi, then W for 0.01 mi, then WNW across the pad for 0.04 mi to arrive at the Archduke 19 W2AP Fed Com 1H Battery release area (32.209723, -104.222393).

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: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 416440
Date: Thursday, January 2, 2025 12:53:57 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432631996.

The sampling event is expected to take place:

When: 01/10/2025 @ 07:30

Where: A-19-24S-27E 0 FNL 0 FEL (32.20955,-104.22248)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of Co Rd 720 and Co Rd 748 (32.231743, -104.221095), head S on Co Rd 748 for 1.60 mi, then W for 0.01 mi, then WNW across the pad for 0.04 mi to arrive at the Archduke 19 W2AP Fed Com 1H Battery release area (32.209723, -104.222393).

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: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 416442
Date: Thursday, January 2, 2025 12:54:07 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432631996.

The sampling event is expected to take place:

When: 01/13/2025 @ 07:30

Where: A-19-24S-27E 0 FNL 0 FEL (32.20955,-104.22248)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of Co Rd 720 and Co Rd 748 (32.231743, -104.221095), head S on Co Rd 748 for 1.60 mi, then W for 0.01 mi, then WNW across the pad for 0.04 mi to arrive at the Archduke 19 W2AP Fed Com 1H Battery release area (32.209723, -104.222393).

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: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 416446
Date: Thursday, January 2, 2025 12:56:07 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432631996.

The sampling event is expected to take place:

When: 01/14/2025 @ 07:30

Where: A-19-24S-27E 0 FNL 0 FEL (32.20955,-104.22248)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of Co Rd 720 and Co Rd 748 (32.231743, -104.221095), head S on Co Rd 748 for 1.60 mi, then W for 0.01 mi, then WNW across the pad for 0.04 mi to arrive at the Archduke 19 W2AP Fed Com 1H Battery release area (32.209723, -104.222393).

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: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 416449
Date: Thursday, January 2, 2025 12:57:41 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432631996.

The sampling event is expected to take place:

When: 01/15/2025 @ 07:30

Where: A-19-24S-27E 0 FNL 0 FEL (32.20955,-104.22248)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of Co Rd 720 and Co Rd 748 (32.231743, -104.221095), head S on Co Rd 748 for 1.60 mi, then W for 0.01 mi, then WNW across the pad for 0.04 mi to arrive at the Archduke 19 W2AP Fed Com 1H Battery release area (32.209723, -104.222393).

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: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 416450
Date: Thursday, January 2, 2025 12:59:29 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432631996.

The sampling event is expected to take place:

When: 01/16/2025 @ 07:30

Where: A-19-24S-27E 0 FNL 0 FEL (32.20955,-104.22248)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of Co Rd 720 and Co Rd 748 (32.231743, -104.221095), head S on Co Rd 748 for 1.60 mi, then W for 0.01 mi, then WNW across the pad for 0.04 mi to arrive at the Archduke 19 W2AP Fed Com 1H Battery release area (32.209723, -104.222393).

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: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 416451
Date: Thursday, January 2, 2025 1:01:44 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432631996.

The sampling event is expected to take place:

When: 01/17/2025 @ 07:30

Where: A-19-24S-27E 0 FNL 0 FEL (32.20955,-104.22248)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of Co Rd 720 and Co Rd 748 (32.231743, -104.221095), head S on Co Rd 748 for 1.60 mi, then W for 0.01 mi, then WNW across the pad for 0.04 mi to arrive at the Archduke 19 W2AP Fed Com 1H Battery release area (32.209723, -104.222393).

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

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 427959

QUESTIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 427959
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2432631996
Incident Name	NAPP2432631996 ARCHDUKE 19 W2AP FED COM #1H @ 30-015-44462
Incident Type	Fire
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-44462] ARCHDUKE 19 W2AP FEDERAL COM #001H

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Archduke 19 W2AP Fed Com #1H
Date Release Discovered	11/09/2024
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Fire Production Tank Produced Water Released: 782 BBL Recovered: 755 BBL Lost: 27 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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 2

Action 427959

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 427959
	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.
<i>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.</i>	

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: 11/21/2024
--	---

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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<https://www.emnrd.nm.gov/ocd/contact-us>

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 427959

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 427959
	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 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
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 1000 (ft.) and ½ (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 ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1000 (ft.) and ½ (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

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
<i>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.</i>	
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)	13900
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	91
GRO+DRO (EPA SW-846 Method 8015M)	73
BTEX (EPA SW-846 Method 8021B or 8260B)	0.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1

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	12/18/2024
On what date will (or did) the final sampling or liner inspection occur	01/17/2025
On what date will (or was) the remediation complete(d)	01/27/2025
What is the estimated surface area (in square feet) that will be reclaimed	43224
What is the estimated volume (in cubic yards) that will be reclaimed	2818
What is the estimated surface area (in square feet) that will be remediated	43224
What is the estimated volume (in cubic yards) that will be remediated	3270

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.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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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 427959

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 427959
	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	Not answered.
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	Yes
In which state is the disposal taking place	Texas
What is the name of the out-of-state facility	R360 Red Bluff
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: 02/04/2025
--	---

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.

Sante Fe Main Office
Phone: (505) 476-3441

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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 5

Action 427959

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 427959
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

Sante Fe Main Office
Phone: (505) 476-3441

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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 6

Action 427959

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 427959
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	416451
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/17/2025
What was the (estimated) number of samples that were to be gathered	270
What was the sampling surface area in square feet	50720

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
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	43224
What was the total volume (cubic yards) remediated	3270
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	43224
What was the total volume (in cubic yards) reclaimed	2818
Summarize any additional remediation activities not included by answers (above)	Please see attached closure report for complete remediation 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: 02/04/2025
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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 7

Action 427959

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 427959
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	No

Sante Fe Main Office
Phone: (505) 476-3441

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CONDITIONS

Action 427959

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 427959
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2432631996 ARCHDUKE 19 W2AP FED COM #1H, thank you. This Remediation Closure Report is approved.	2/12/2025