

Amended Remediation Summary & Soil Closure Request

Mewbourne Oil Company Pavo Frio to Westall SWD Line


Eddy County, New Mexico
Unit Letter "L", Section 18, Township 18 South, Range 29 East
Latitude 32.74355 North, Longitude 104.11546 West
NMOCD Reference No. nAPP2424249029

Prepared By:

Etech Environmental & Safety Solutions, Inc.

6309 Indiana Ave, Ste. D
Lubbock, Texas 79413

October 31, 2025


Ben J. Arguijo
Lance Crenshaw

Carlsbad • Hobbs • Houston • Lafayette • Lubbock • Midland

TABLE OF CONTENTS

	<i>Section</i>
PROJECT INFORMATION.....	1.0
SITE CHARACTERIZATION.....	2.0
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE.....	3.0
INITIAL SITE ASSESSMENT.....	4.0
REMEDIATION ACTIVITIES SUMMARY.....	5.0
SOIL CLOSURE REQUEST.....	6.0
RESTORATION, RECLAMATION & RE-VEGETATION PLAN.....	7.0
LIMITATIONS.....	8.0
DISTRIBUTION.....	9.0

FIGURES

Figure 1 – Site Location Map
Figure 2A – Site Characterization Map (0.5–Mile Radius)
Figure 2B – Site Characterization Map (5–Mile Radius)
Figure 3A – Sample Location Map (Northern Portion of Excavation)
Figure 3B – Sample Location Map (Southern Portion of Excavation)

TABLES

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

APPENDICES

Appendix A – Depth to Groundwater Information
Appendix B – Field Data
Appendix C – Photographic Log
Appendix D – Laboratory Analytical Reports
Appendix E – Regulatory Correspondence
Appendix F – NMCRIS Investigation Abstract Form (NIAF)
Appendix G – Addendum

2.0 SITE CHARACTERIZATION

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)?	Between 100 and 500 (ft.)
What method was used to determine the depth to groundwater?	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?	
A continuously flowing watercourse or any other significant watercourse?	Zero feet, overlying, or within area
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Between 1,000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution or church?	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Between 1,000 (ft.) and ½ (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?	Zero feet, overlying, or within area
A subsurface mine?	Greater than 5 (mi.)
A (non-karst) unstable area?	Zero feet, overlying, or within area
Categorize the risk of this well/site being in a karst geology.	Low
A 100-year floodplain?	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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 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.

On September 16, 2024, in accordance with BLM remediation guidelines and the "Cultural Properties Protection Rule", an archaeological/cultural survey was conducted at the Site. The survey encompassed an Area of Potential Effects (APE) measuring approximately 25.89 acres (10.46 hectares). According to the New Mexico Cultural Resource Information System (NMCRIS) Investigation Abstract Form (NIAF), "No archaeological sites or historic properties were observed during the current investigation; two isolated occurrences (IO) of unknown age were identified. IO 1 is a gray chert flake, and IO 2 is a gray and pink chert late-stage biface fragment. The isolated occurrences are recommended as not eligible for NRHP listing. No additional investigation or treatment is recommended regarding the current undertaking; ..." A copy of the NIAF is provided as Appendix F.

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 listed in the table on the following page.

Closure Criteria for Soils Impacted by a Release

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

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

4.0 INITIAL SITE ASSESSMENT

On September 6, 2024, Etech conducted an initial site assessment. During the initial site assessment, five (5) test trenches (TT 1 through TT 5) were advanced within the inferred margins of the release in an effort to determine the vertical extent of impacted soil. The test trenches were advanced in increments of one (1) foot to total depths ranging from one (1) foot (TT 4 and TT 5) to six (6) feet bgs (TT 1 and TT 2). 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 22 delineation soil samples (TT 1 @ Surf through TT 1 @ 6', TT 2 @ Surf through TT 2 @ 6', TT 3 @ Surf through TT 3 @ 3', TT 4 @ Surf, TT 4 @ 1', TT 5 @ Surf, and TT 5 @ 1') were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the vertical extent of impacted soil was adequately defined and ranged from two (2) feet bgs in trench TT 3 to six (6) feet bgs in trenches TT 1 and TT 2. Impacted soil did not extend beyond ground surface in the areas characterized by test trenches TT 4 and TT 5.

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?	9/6/2024	
On what date will (or did) the final sampling or liner inspection occur?	1/27/2025	
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?	31,460	
What is the total volume (cy) in need of or that will <i>eventually</i> be reclaimed?	4,128	
What was the total surface area (sq. ft.) that has or will be remediated?	31,460	
What was the total volume (cy) that has or will be remediated?	4,136	
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 Halfway Facility	
NMOCD Disposal Facility ID?	FEEM0112334510	
Summarize any additional remediation activities not included by answers above.	See below	

On September 6, 2024, Etech commenced remediation activities at the Site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floor of the excavation were advanced until field tests and field observations suggested that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis. A summary of soil sampling events is provided below:

Constituent	Highest Observed Concentration (mg/kg)	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	20,000	TT 1 @ Surf	9/6/2024	0	Excavated
TPH	14,700	TT 2 @ Surf	9/6/2024	0	Excavated
GRO+DRO	11,400	TT 2 @ Surf	9/6/2024	0	Excavated
BTEX	<0.300	All submitted soil samples	Various. See Table 1.	0–7	In-Situ & Excavated
Benzene	<0.050	All submitted soil samples	Various. See Table 1.	0–7	In-Situ & Excavated

Please reference Table 1 for additional information.

On September 11, 2024, Etech collected 42 confirmation soil samples (FL 1 @ 4' through FL 33 @ 5', NW 1, NW 2, EW 1, EW 2, SW 1, SW 2, SW 3, WW 1, and WW 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 and TPH concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. Chloride concentrations were also below the NMOCD Closure Criterion and NMOCD Reclamation Standard, with the exception of soil samples FL 3 @ 4', FL 20 @ 6', and FL 23 @ 5'. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples FL 3 @ 4', FL 20 @ 6', and FL 23 @ 5'.

On September 12, 2024, Etech collected 14 confirmation soil samples (FL 34 @ 7' through FL 43 @ 3', FL 43 @ 5', EW 3, EW 4, WW 3, 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 and NMOCD Reclamation Standards in each of the submitted soil samples. Chloride concentrations were also below the NMOCD Closure Criterion and NMOCD Reclamation Standard, with the exception of soil samples FL 35 @ 6' and FL 42 @ 3'. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples FL 35 @ 6' and FL 42 @ 3'.

On September 13, 2024, Etech collected 22 confirmation soil samples (FL 44 @ 6' through FL 59 @ 4', EW 5, EW 6, EW 7, WW 5, WW 6, and WW 7) 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.

On September 16, 2024, Etech collected 16 confirmation soil samples (FL 60 @ 5' through FL 73 @ 4', EW 8, and WW 8) 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.

On September 17, 2024, Etech collected 16 confirmation soil samples (FL 74 @ 1' through FL 88 @ 6' 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 and TPH concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. Chloride concentrations were also below the NMOCD Closure Criterion and NMOCD Reclamation Standard, with the exception of soil samples FL 79 @ 2' and FL 81 @ 1'. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples FL 79 @ 2' and FL 81 @ 1'.

On September 18, 2024, Etech collected 21 confirmation soil samples (FL 3 @ 5', FL 20 @ 7', FL 23 @ 6', FL 35 @ 7', FL 42 @ 4', FL 89 @ 6' through FL 100 @ 7', NW 2, NW 3, SW 2, and SW 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 and TPH concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. Chloride concentrations were also below the NMOCD Closure Criterion and NMOCD Reclamation Standard, with the exception of soil samples FL 90 @ 6' and FL 91 @ 6'. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples FL 90 @ 6' and FL 91 @ 6'.

On September 19, 2024, Etech collected 18 confirmation soil samples (FL 101 @ 6', FL 102 @ 6', FL 103 @ 7', FL 105 @ 6' through FL 113 @ 6', NW 4, NW 5, EW 9, SW 4, SW 5, and WW 9) 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.

On September 23, 2024, Etech collected 47 confirmation soil samples (FL 79 @ 3', FL 81 @ 2', FL 104 @ 6', FL 114 @ 6.5', FL 115 @ 6.5', FL 116 @ 6.5', EW 9 through EW 29, SW 6, and WW 9 through WW 27) 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 and NMOCD Reclamation Standards in each of the submitted soil samples. Chloride concentrations were also below the NMOCD Closure Criterion and NMOCD Reclamation Standard, with the exception of soil samples EW 15, EW 17, EW 26, and WW 10. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples EW 15, EW 17, EW 26, and WW 10.

On September 24, 2024, Etech collected 13 confirmation soil samples (FL 90 @ 7', FL 91 @ 7', FL 117 @ 3' through FL 122 @ 3', NW 6, NW 7, EW 11, EW 12, and SW 7) 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.

On September 27, 2024, Etech collected four (4) confirmation soil samples (EW 15 B, EW 17 B, EW 26 B, and WW 10 B) from the 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, with the exception of soil sample EW 17 B, which exceeded the NMOCD Closure Criterion for chloride. Based on these laboratory analytical results, the excavation was subsequently further advanced in the area characterized by soil sample EW 17 B.

On October 4, 2024, Etech collected one (1) confirmation soil sample (EW 17 C) from the sidewall of the excavated area. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that the BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

From September 26 through October 7, 2024, upon receiving laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally sourced, non-impacted material emplaced 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.

On October 10, 2024, in accordance with NMOCD requirements, a 5-point composite soil sample (Stockton Pit) was collected from material stockpiled in the nearby Stockton borrow pit, from which the imported backfill material was sourced. 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 material acquired from the pit was acceptable for use as backfill.

On November 14, 2024, based on laboratory analytical results and field activities conducted to that point, a *Remediation Summary & Soil Closure Request* (Closure Request) was submitted to the NMOCD requesting regulatory closure of the release. The Closure Request was denied by the NMOCD on November 27, 2024, primarily on the basis that an insufficient number of samples had been collected for an excavation measuring 31,460 square feet (i.e., 122 base/floor samples were collected, whereas 157 samples were required). An addendum containing responses to related questions posed by the NMOCD in the rejection letter is provided as Appendix G.

On January 24, 2025, in accordance with NMOCD directives, Etech revisited the Site and re-excavated portions of the previously backfilled excavation in order to obtain additional floor samples from the remediated area. A total of 17 confirmation soil samples (FL 123 @ 4' through FL 139 @ 4') were collected from the re-excavated areas and 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, with the exception of soil sample FL 123 @ 4', which exceeded the NMOCD Closure Criterion for chloride. Based on these laboratory analytical results, the excavation was subsequently further advanced in the area characterized by soil sample FL 123 @ 4'.

On January 27, 2025, Etech collected 19 confirmation soil samples (FL 123 @ 5' and FL 140 @ 4' through FL 157 @ 4') from the floors of the re-excavated areas. 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.

Upon receipt of laboratory analytical results, the re-excavated areas were backfilled with non-impacted material, compacted, and contoured to fit the surrounding topography.

On February 25, 2025, based on laboratory analytical results and field activities conducted to that point, an *Amended Remediation Summary & Soil Closure Request* (Amended Closure Request) was submitted to the NMOCD requesting regulatory closure of the release. The Amended Closure Request was denied by the NMOCD on March 6, 2025, on the basis that the additional floor samples collected in January 2025 were obtained at depths inconsistent with data previously submitted to the NMOCD. Locations for both resampling and additional sample collection were refined and finalized through subsequent email correspondence between Etech and the NMOCD, with all samples to be collected as grab samples.

On April 1, 2025, with NMOCD approval, Etech revisited the Site to begin collecting the agreed-upon samples. A total of 22 grab samples (FL 123 @ 6.5' through FL 129 @ 6', FL 143 @ 5.5', FL 143 @ 7', FL 145 @ 7', FL 147 @ 5', FL 148 @ 5.5', FL 149 @ 6', FL 151 @ 6', and FL 153 @ 6' through FL 160 @ 6') 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.

On April 4, 2025, six (6) grab samples (FL 133 @ 2.5', FL 134 @ 2', FL 161 @ 4', FL 162 @ 4', FL 163 @ 4.5', and FL 163 @ 6') were collected and 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.

Following sample collection, each sample point was backfilled with non-impacted material, compacted, and contoured to fit the surrounding topography.

The final dimensions of the excavated area were approximately 1,152 feet in length; three (3) to 105 feet in width; and one (1) to seven (7) feet in depth. During the course of remediation activities, Etech transported approximately 4,136 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 4,136 cubic yards of locally sourced, non-impacted material to the Site for use as backfill.

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?	31,460			
What was the total volume (cy) remediated?	4,136			

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends Mewbourne Oil Company provide copies of this *Amended 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?	31,460			
What was the total volume (in cubic yards) reclaimed?	4,128			

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted material emplaced 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.

On November 5, 2024, in accordance with NMOCD and BLM requirements, the affected area was seeded with a BLM #2 seed mix certified to be free of noxious weeds. The seed was installed at the prescribed rate utilizing a broadcaster and harrow. Photographs of the seeding event and seed tag are provided in Appendix C.

8.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Amended 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

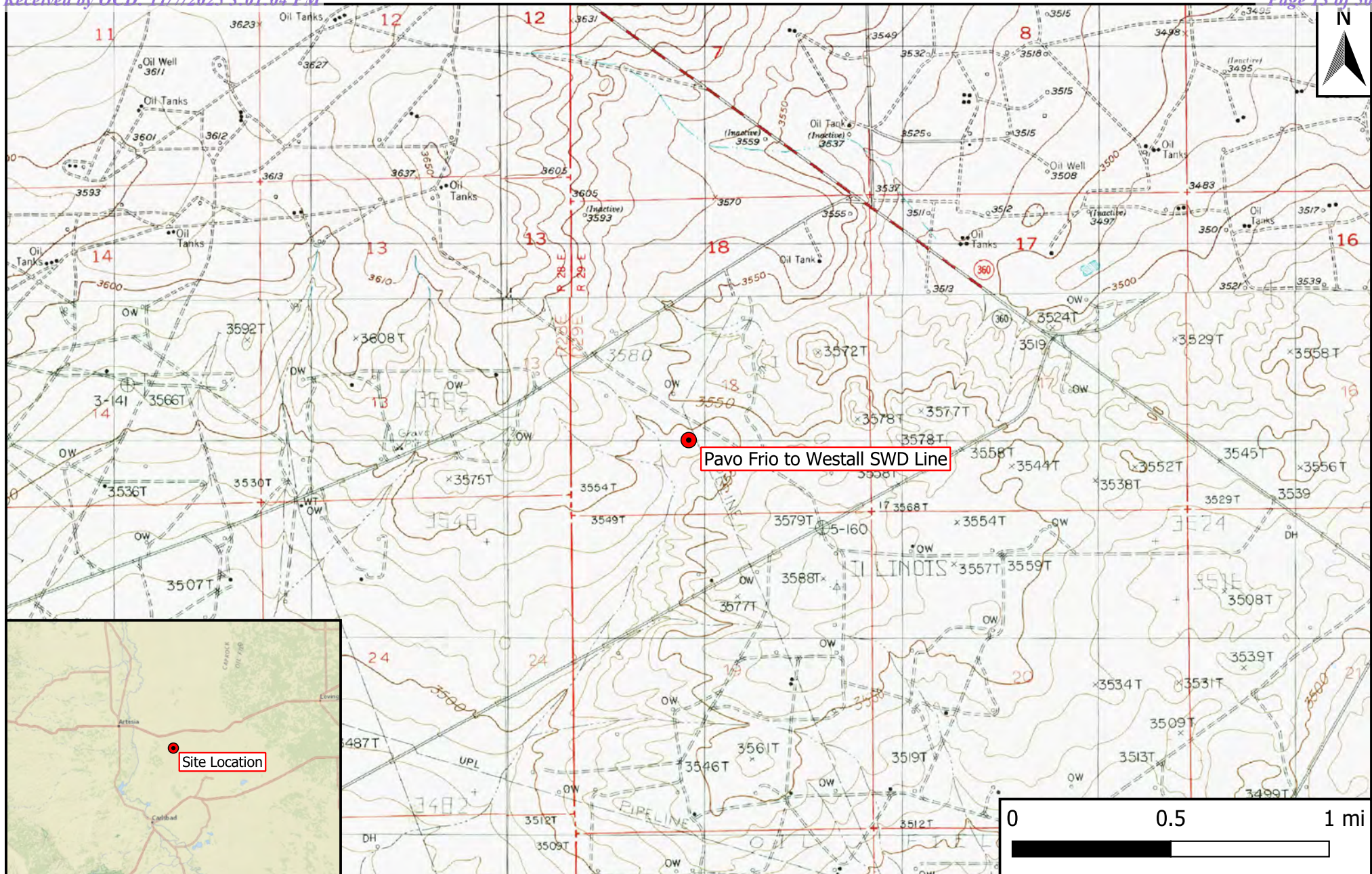
620 E. Greene Street

Carlsbad, NM 88220

(Electronic Submission)

Figure 1

Site Location Map



Legend

- Site Location

Figure 1
 Site Location Map
 Mewbourne Oil Company
 Pavo Frio to Westall SWD Line
 GPS: 32.74355, -104.11546
 Eddy County, New Mexico



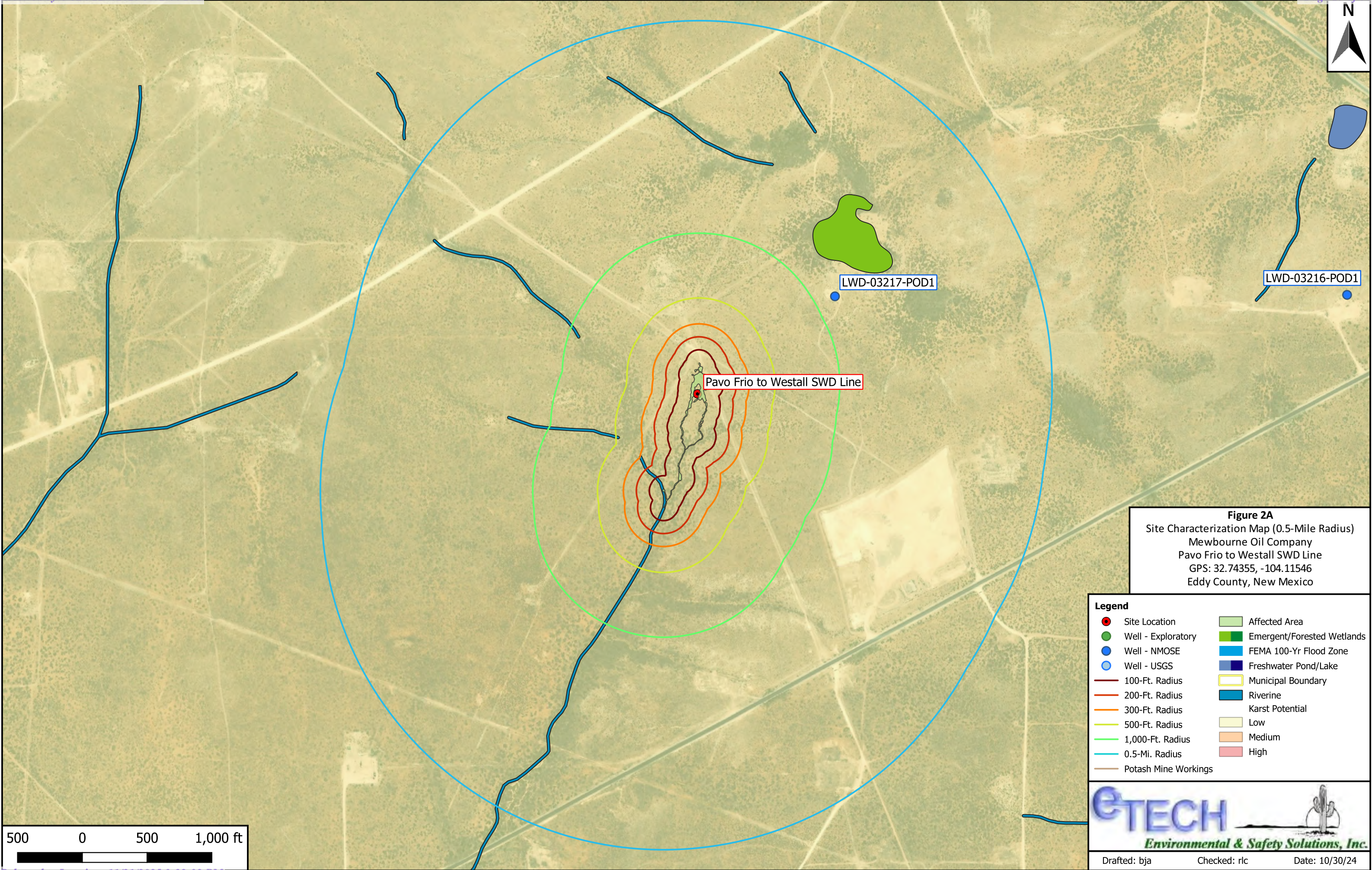
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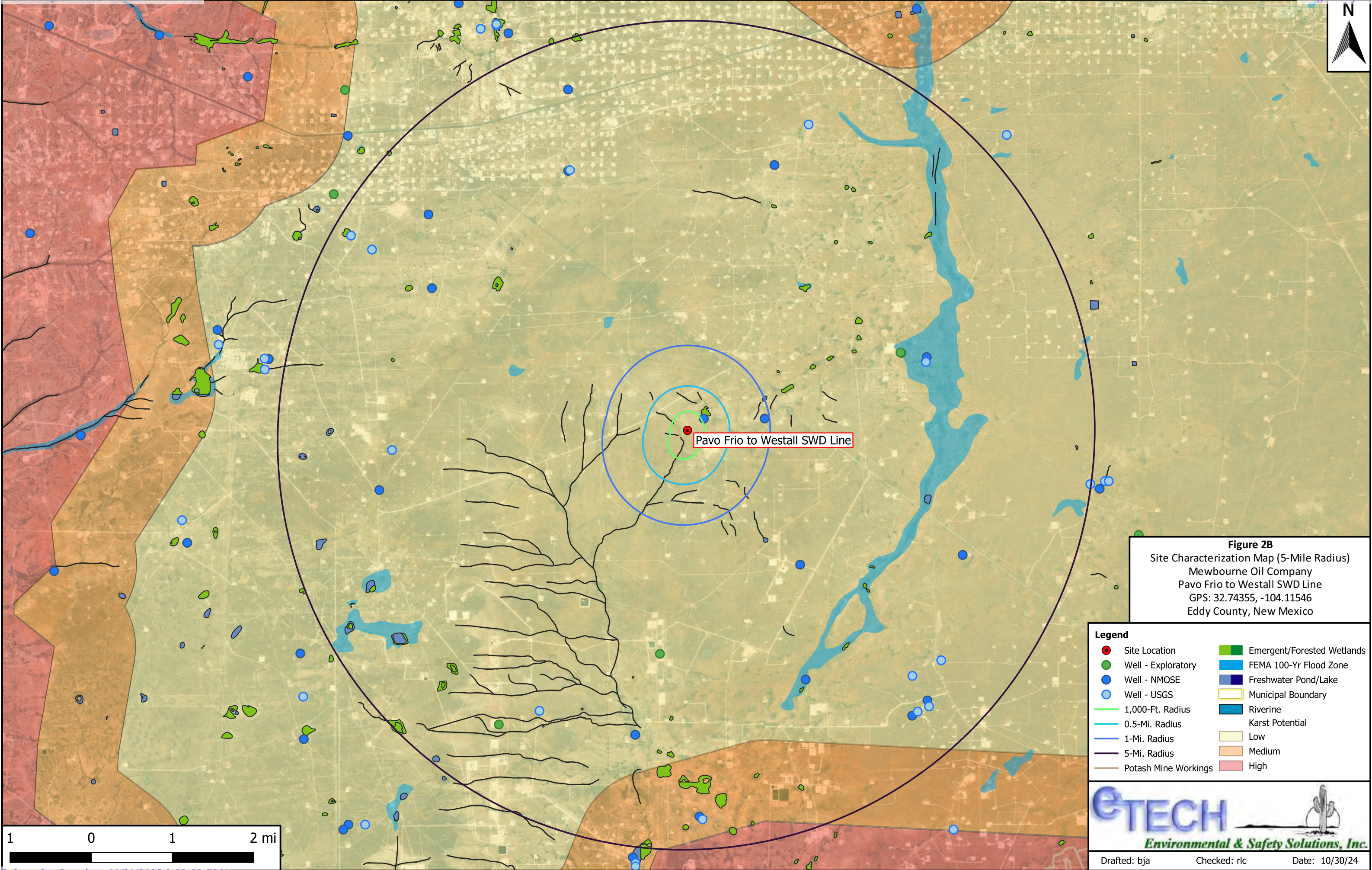
Checked: rlc

Date: 9/6/24

Figures 2A & 2B

Site Characterization Maps

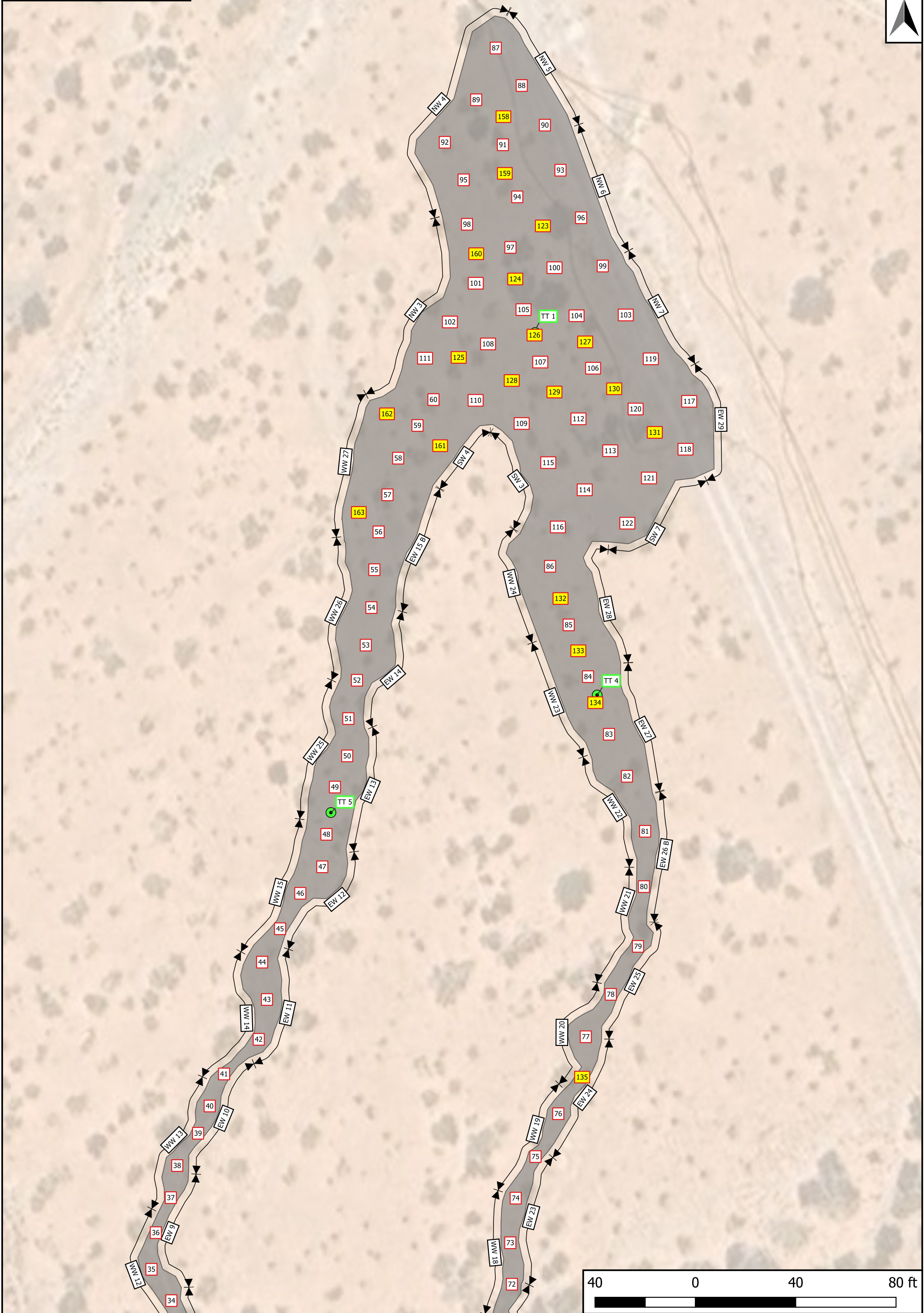





Figures 3A & 3B

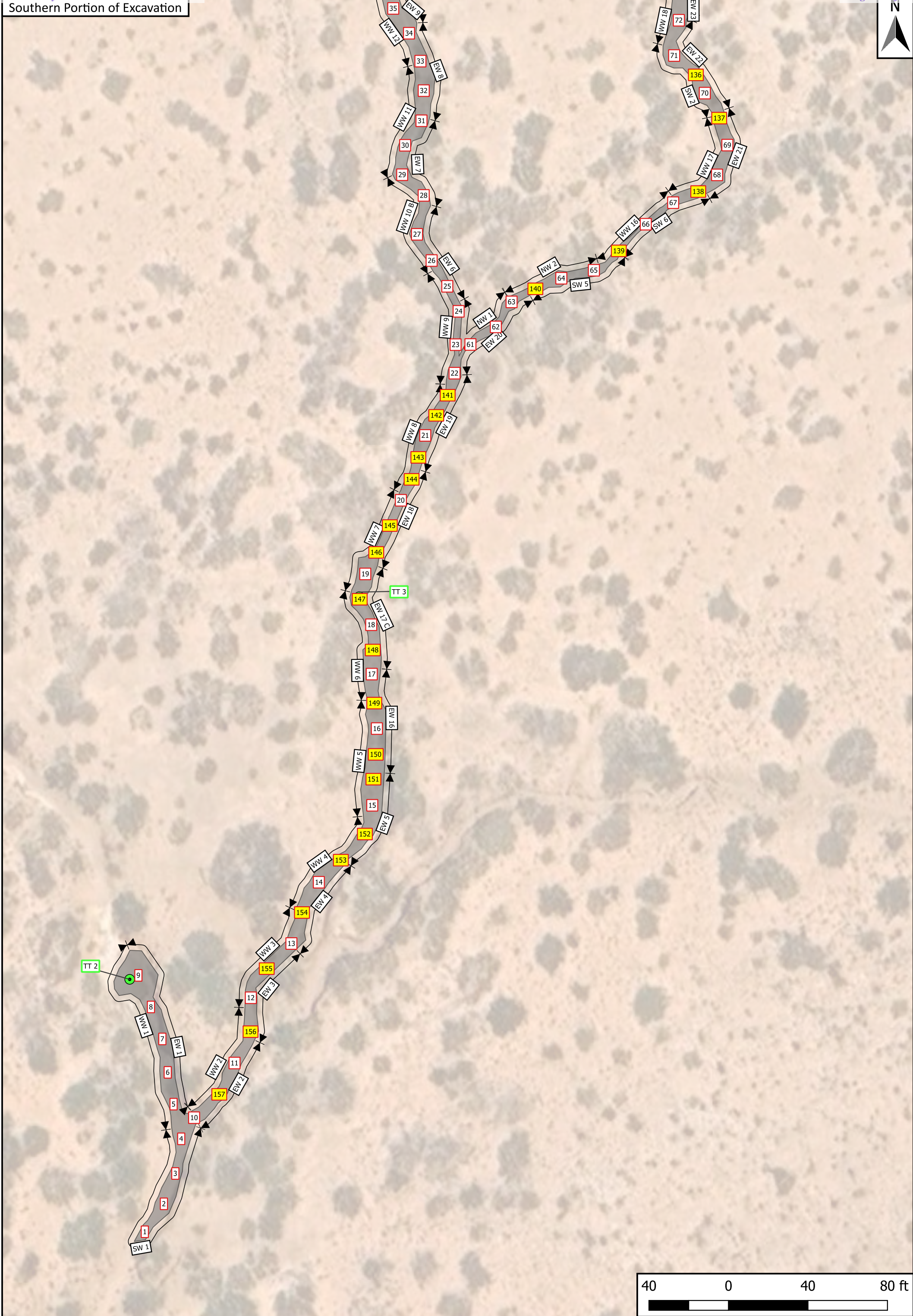
Sample Location Maps

Northern Portion of Excavation



<p>Legend</p> <ul style="list-style-type: none">Excavation Extent (31,460 ft²)Composite Floor Sample (2024)Composite Floor Sample (2025)Composite Wall SampleDelineation Sample Location	<p>Figure 3A Sample Location Map Mewbourne Oil Company Pavo Frio to Westall SWD Line GPS: 32.74355, -104.11546 Eddy County, New Mexico</p>	<div></div> <div>Revised: bja Checked: rlc Date: 10/31/25</div>
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Southern Portion of Excavation



Legend

- Excavation Extent (31,460 ft²)
- Composite Floor Sample (2024)
- Composite Floor Sample (2025)
- Composite Wall Sample
- Delineation Sample Location

Figure 3B
Sample Location Map
Mewbourne Oil Company
Pavo Frio to Westall SWD Line
GPS: 32.74355, -104.11546
Eddy County, New Mexico

Revised: bja Checked: rlc Date: 2/24/25

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Pavo Frio to Westall SWD Line
NMOCD Ref. #: nAPP2424249029

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)	Type	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)
TT 1 @ Surf	9/6/2024	0	D	Excavated	<0.050	<0.300	<10.0	419	419	99.1	518	2,800
TT 1 @ 1'	9/6/2024	1	D	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	19,200
TT 1 @ 2'	9/6/2024	2	D	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	20,000
TT 1 @ 3'	9/6/2024	3	D	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	12,600
TT 1 @ 4'	9/6/2024	4	D	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,600
TT 1 @ 5'	9/6/2024	5	D	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,660
TT 1 @ 6'	9/6/2024	6	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
TT 2 @ Surf	9/6/2024	0	D	Excavated	<0.050	<0.300	<50.0	11,400	11,400	3,280	14,700	15,800
TT 2 @ 1'	9/6/2024	1	D	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,160
TT 2 @ 2'	9/6/2024	2	D	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,000
TT 2 @ 3'	9/6/2024	3	D	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,480
TT 2 @ 4'	9/6/2024	4	D	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,840
TT 2 @ 5'	9/6/2024	5	D	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	848
TT 2 @ 6'	9/6/2024	6	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
TT 3 @ Surf	9/6/2024	0	D	Excavated	<0.050	<0.300	<10.0	80.7	80.7	35.4	116	880
TT 3 @ 1'	9/6/2024	1	D	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,440
TT 3 @ 2'	9/6/2024	2	D	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
TT 3 @ 3'	9/6/2024	3	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
TT 4 @ Surf	9/6/2024	0	D	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
TT 4 @ 1'	9/6/2024	1	D	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
TT 5 @ Surf	9/6/2024	0	D	Excavated	<0.050	<0.300	<10.0	13.0	13.0	<10.0	13.0	16.0
TT 5 @ 1'	9/6/2024	1	D	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
FL 1 @ 4'	9/11/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 2 @ 4'	9/11/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 3 @ 4'	9/11/2024	4	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	960
FL 3 @ 5'	9/18/2024	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 4 @ 4'	9/11/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 5 @ 4'	9/11/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 6 @ 4'	9/11/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 7 @ 4'	9/11/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 8 @ 3'	9/11/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 9 @ 7'	9/11/2024	7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 10 @ 5'	9/11/2024	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 11 @ 6'	9/11/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 12 @ 6'	9/11/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 13 @ 6'	9/11/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 14 @ 6'	9/11/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 15 @ 6'	9/11/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 16 @ 6'	9/11/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 17 @ 6'	9/11/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 18 @ 5'	9/11/2024	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 19 @ 5'	9/11/2024	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

A - Assessment F - Backfill
D - Delineation B - Background
C - Confirmation O - Other
R - Deferral

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Pavo Frio to Westall SWD Line
NMOCD Ref. #: nAPP2424249029

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)	Type	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 20 @ 6'	9/11/2024	6	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	912
FL 20 @ 7'	9/18/2024	7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 21 @ 3'	9/11/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 22 @ 3'	9/11/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 23 @ 5'	9/11/2024	5	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,100
FL 23 @ 6'	9/18/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 24 @ 4'	9/11/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 25 @ 4'	9/11/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 26 @ 4'	9/11/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 27 @ 3'	9/11/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 28 @ 6'	9/11/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 29 @ 5'	9/11/2024	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 30 @ 4'	9/11/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 31 @ 5'	9/11/2024	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 32 @ 5'	9/11/2024	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 33 @ 5'	9/11/2024	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 34 @ 7'	9/12/2024	7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 35 @ 6'	9/12/2024	6	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	960
FL 35 @ 7'	9/18/2024	7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 36 @ 4'	9/12/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 37 @ 6'	9/12/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 38 @ 5'	9/12/2024	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 39 @ 5'	9/12/2024	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 40 @ 5'	9/12/2024	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 41 @ 5'	9/12/2024	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 42 @ 3'	9/12/2024	3	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	960
FL 42 @ 4'	9/18/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 43 @ 5'	9/12/2024	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 44 @ 6'	9/13/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 45 @ 6'	9/13/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 46 @ 5'	9/13/2024	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 47 @ 5'	9/13/2024	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 48 @ 5'	9/13/2024	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 49 @ 4'	9/13/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 50 @ 6'	9/13/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 51 @ 5'	9/13/2024	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 52 @ 6'	9/13/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 53 @ 6'	9/13/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 54 @ 6'	9/13/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 55 @ 6'	9/13/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 56 @ 6'	9/13/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 57 @ 3'	9/13/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

A - Assessment F - Backfill
D - Delineation B - Background
C - Confirmation O - Other
R - Deferral

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Pavo Frio to Westall SWD Line
NMOCD Ref. #: nAPP2424249029

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)	Type	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 58 @ 4'	9/13/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 59 @ 4'	9/13/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 60 @ 5'	9/16/2024	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 61 @ 4'	9/16/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 62 @ 3'	9/16/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 63 @ 3'	9/16/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 64 @ 4'	9/16/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 65 @ 4'	9/16/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 66 @ 4'	9/16/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 67 @ 4'	9/16/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 68 @ 4'	9/16/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 69 @ 4'	9/16/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 70 @ 3'	9/16/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 71 @ 3'	9/16/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 72 @ 3'	9/16/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 73 @ 4'	9/16/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 74 @ 1'	9/17/2024	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 75 @ 1'	9/17/2024	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 76 @ 1'	9/17/2024	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 77 @ 2'	9/17/2024	2	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 78 @ 1'	9/17/2024	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 79 @ 2'	9/17/2024	2	C	Excavated	<0.050	<0.300	<10.0	23.8	23.8	<10.0	23.8	1,730
FL 79 @ 3'	9/23/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 80 @ 2'	9/17/2024	2	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 81 @ 1'	9/17/2024	1	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	896
FL 81 @ 2'	9/23/2024	2	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 82 @ 2'	9/17/2024	2	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 83 @ 2'	9/17/2024	2	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 84 @ 2'	9/17/2024	2	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 85 @ 3'	9/17/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 86 @ 3'	9/17/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 87 @ 5'	9/17/2024	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL 88 @ 6'	9/17/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 89 @ 6'	9/18/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
FL 90 @ 6'	9/18/2024	6	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	640
FL 90 @ 7'	9/24/2024	7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 91 @ 6'	9/18/2024	6	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	640
FL 91 @ 7'	9/24/2024	7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 92 @ 6'	9/18/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
FL 93 @ 6'	9/18/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 94 @ 7'	9/18/2024	7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 95 @ 6'	9/18/2024	6	C	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.

A - Assessment F - Backfill
D - Delineation B - Background
C - Confirmation O - Other
R - Deferral

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Pavo Frio to Westall SWD Line
NMOCD Ref. #: nAPP2424249029

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)	Type	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 96 @ 6'	9/18/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 97 @ 6'	9/18/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 98 @ 6'	9/18/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 99 @ 6'	9/18/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 100 @ 7'	9/18/2024	7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 101 @ 6'	9/19/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 102 @ 6'	9/19/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 103 @ 7'	9/19/2024	7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 104 @ 6'	9/23/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 105 @ 6'	9/19/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 106 @ 6'	9/19/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
FL 107 @ 6'	9/19/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 108 @ 6'	9/19/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 109 @ 6'	9/19/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 110 @ 6'	9/19/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
FL 111 @ 6'	9/19/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 112 @ 6'	9/19/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 113 @ 6'	9/19/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 114 @ 6.5'	9/23/2024	6.5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 115 @ 6.5'	9/23/2024	6.5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 116 @ 6.5'	9/23/2024	6.5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 117 @ 3'	9/24/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 118 @ 3'	9/24/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 119 @ 3'	9/24/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 120 @ 3'	9/24/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 121 @ 3'	9/24/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 122 @ 3'	9/24/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 123 @ 4'	1/24/2025	4	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	704
FL 123 @ 5'	1/27/2025	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 123 @ 6.5'	4/1/2025	6.5	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 124 @ 4'	1/24/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 124 @ 6.5'	4/1/2025	6.5	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 125 @ 4'	1/24/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 125 @ 6'	4/1/2025	6	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 126 @ 4'	1/24/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 126 @ 6'	4/1/2025	6	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 127 @ 4'	1/24/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 127 @ 6.5'	4/1/2025	6.5	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 128 @ 4'	1/24/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 128 @ 6'	4/1/2025	6	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 129 @ 4'	1/24/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 129 @ 6'	4/1/2025	6	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

A - Assessment F - Backfill
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Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Pavo Frio to Westall SWD Line
NMOCD Ref. #: nAPP2424249029

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)	Type	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 130 @ 4'	1/24/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 131 @ 4'	1/24/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 132 @ 4'	1/24/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 133 @ 2.5'	4/4/2025	2.5	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 133 @ 4'	1/24/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 134 @ 2'	4/4/2025	2	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 134 @ 4'	1/24/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 135 @ 4'	1/24/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 136 @ 4'	1/24/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 137 @ 4'	1/24/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 138 @ 4'	1/24/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 139 @ 4'	1/24/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 140 @ 4'	1/27/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 141 @ 4'	1/27/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 142 @ 4'	1/27/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 143 @ 4'	1/27/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 143 @ 5.5'	4/1/2025	5.5	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 143 @ 7'	4/1/2025	7	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 144 @ 4'	1/27/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 145 @ 4'	1/27/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 145 @ 7'	4/1/2025	7	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 146 @ 4'	1/27/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 147 @ 4'	1/27/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 147 @ 5'	4/1/2025	5	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 148 @ 4'	1/27/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 148 @ 5.5'	4/1/2025	5.5	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 149 @ 4'	1/27/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 149 @ 6'	4/1/2025	6	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 150 @ 4'	1/27/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 151 @ 4'	1/27/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 151 @ 6'	4/1/2025	6	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 152 @ 4'	1/27/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 153 @ 4'	1/27/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 153 @ 6'	4/1/2025	6	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 154 @ 4'	1/27/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 154 @ 6'	4/1/2025	6	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 155 @ 4'	1/27/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 155 @ 6'	4/1/2025	6	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 156 @ 4'	1/27/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 156 @ 6'	4/1/2025	6	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 157 @ 4'	1/27/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 157 @ 5.5'	4/1/2025	5.5	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

A - Assessment F - Backfill

D - Delineation B - Background

C - Confirmation O - Other

R - Deferral

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Pavo Frio to Westall SWD Line
NMOCD Ref. #: nAPP2424249029

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)	Type	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 158 @ 6.5'	4/1/2025	6.5	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 159 @ 7'	4/1/2025	7	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 160 @ 6'	4/1/2025	6	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 161 @ 4'	4/4/2025	4	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 162 @ 4'	4/4/2025	4	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 163 @ 4.5'	4/4/2025	4.5	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 163 @ 6'	4/4/2025	6	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 1	9/11/2024	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 1	9/17/2024	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NW 2	9/11/2024	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
NW 2	9/18/2024	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
NW 3	9/18/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW 4	9/19/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
NW 5	9/19/2024	0-7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 6	9/24/2024	0-7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NW 7	9/24/2024	0-7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
EW 1	9/11/2024	0-7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW 2	9/11/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW 3	9/12/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
EW 4	9/12/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EW 5	9/13/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EW 6	9/13/2024	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW 7	9/13/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW 8	9/16/2024	0-7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EW 9	9/19/2024	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EW 9	9/23/2024	0-7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 10	9/23/2024	0-5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 11	9/23/2024	0-4	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
EW 11	9/24/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
EW 12	9/23/2024	0-4	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
EW 12	9/24/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
EW 13	9/23/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW 14	9/23/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
EW 15	9/23/2024	0-4	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,420
EW 15 B	9/27/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
EW 16	9/23/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
EW 17	9/23/2024	0-4	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	704
EW 17 B	9/27/2024	0-6	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	608
EW 17 C	10/4/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW 18	9/23/2024	0-7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 19	9/23/2024	0-7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
EW 20	9/23/2024	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

A - Assessment F - Backfill
D - Delineation B - Background
C - Confirmation O - Other
R - Deferral

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Pavo Frio to Westall SWD Line
NMOCD Ref. #: nAPP2424249029

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)	Type	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
					Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
EW 21	9/23/2024	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
EW 22	9/23/2024	0-3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW 23	9/23/2024	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
EW 24	9/23/2024	0-2	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
EW 25	9/23/2024	0-3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
EW 26	9/23/2024	0-2	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,490
EW 26 B	9/27/2024	0-2	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
EW 27	9/23/2024	0-2	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
EW 28	9/23/2024	0-6.5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 29	9/23/2024	0-3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
SW 1	9/11/2024	0-5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 2	9/11/2024	0-2	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 2	9/18/2024	0-3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
SW 3	9/11/2024	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
SW 3	9/18/2024	0-6.5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 4	9/19/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW 5	9/19/2024	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW 6	9/23/2024	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 7	9/24/2024	0-3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WW 1	9/11/2024	0-7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW 2	9/11/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 3	9/12/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 4	9/12/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 5	9/13/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
WW 6	9/13/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 7	9/13/2024	0-7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WW 8	9/16/2024	0-7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 9	9/19/2024	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WW 9	9/23/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW 10	9/23/2024	0-4	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	640
WW 10 B	9/27/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
WW 11	9/23/2024	0-5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
WW 12	9/23/2024	0-7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
WW 13	9/23/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WW 14	9/23/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
WW 15	9/23/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
WW 16	9/23/2024	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 17	9/23/2024	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 18	9/23/2024	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
WW 19	9/23/2024	0-1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
WW 20	9/23/2024	0-2	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 21	9/23/2024	0-3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

A - Assessment F - Backfill
D - Delineation B - Background
C - Confirmation O - Other
R - Deferral

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Pavo Frio to Westall SWD Line
NMOCD Ref. #: nAPP2424249029

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)	Type	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)
WW 22	9/23/2024	0-2	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
WW 23	9/23/2024	0-3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 24	9/23/2024	0-6.5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW 25	9/23/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 26	9/23/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 27	9/23/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
Stockton Pit	10/10/2024	N/A	F	Backfill	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0

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

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

Red Border with Shading: Highest observed concentration.

A - Assessment F - Backfill

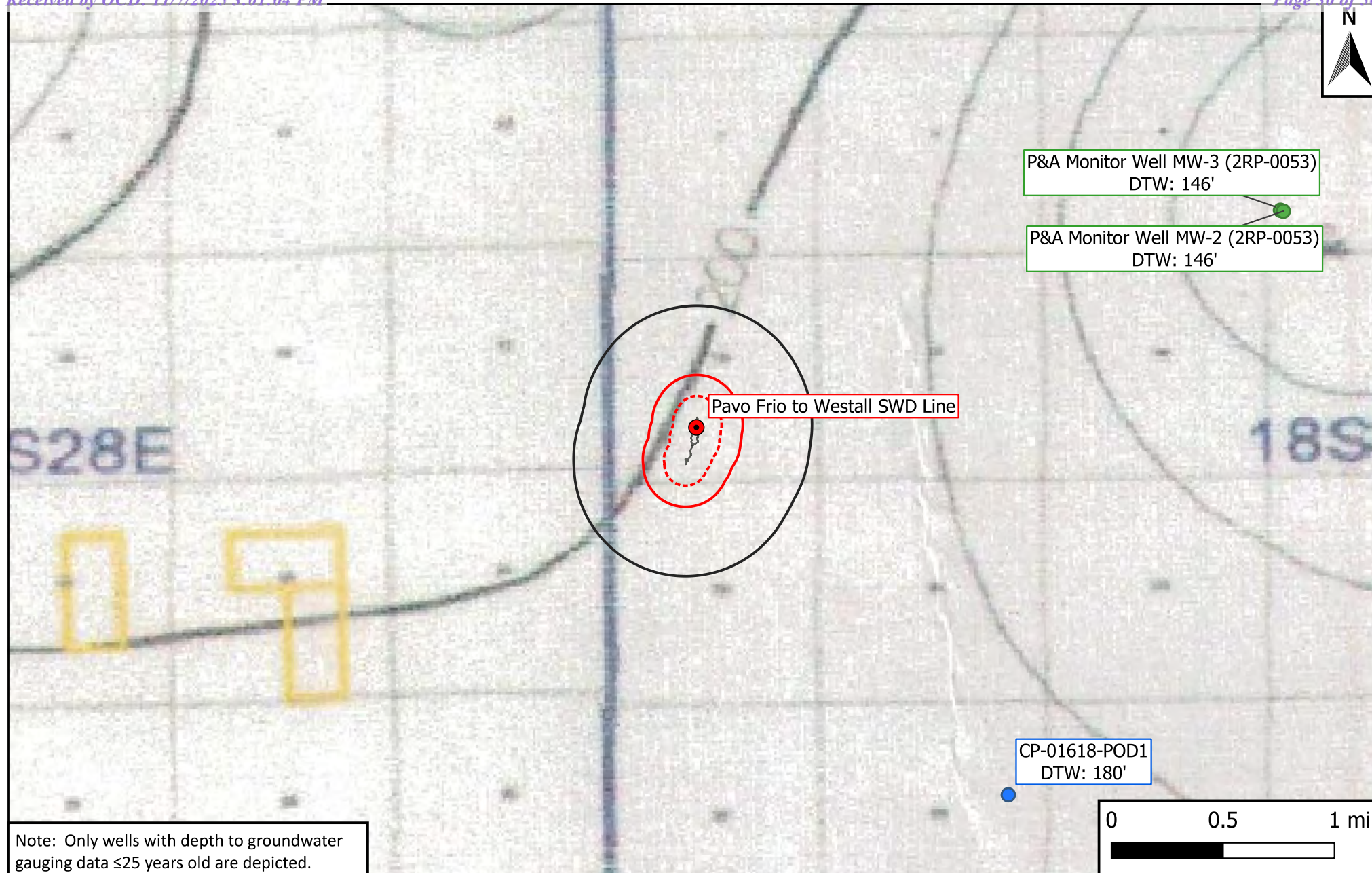
D - Delineation B - Background

C - Confirmation O - Other

R - Deferral

Appendix A

Depth to Groundwater Information



Legend

- Site Location
- Well - Exploratory
- Well - NMOSE
- Well - USGS
- Affected Area
- ⋯ 500-Ft Radius
- ▭ 1,000-Ft Radius
- ▭ 0.5-Mi Radius

Figure 4

Inferred Depth to Groundwater Map
Mewbourne Oil Company
Pavo Frio to Westall SWD Line
GPS: 32.74355, -104.11546
Eddy County, New Mexico




Drafted: bja

Checked: rlc

Date: 11/11/24

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE				NAD83 UTM in meters						
quarters are smallest to largest										
Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	CP 01618 POD1	SW	SE	NE	29	18S	29E	585119.6	3620554.9	

* UTM location was derived from PLSS - see Help

Driller License:	1058	Driller Company:	KEY'S DRILLING & PUMP SERVICE
Driller Name:	DON KUEHN III		
Drill Start Date:	2016-08-23	Drill Finish Date:	2016-08-26
Log File Date:	2016-09-12	PCW Rcv Date:	
		Source:	Shallow
Pump Type:		Pipe Discharge Size:	
		Estimated Yield:	2
Casing Size:	4.50	Depth Well:	240
		Depth Water:	180

Water Bearing Stratifications:

Top	Bottom	Description
140	200	Sandstone/Gravel/Conglomerate
200	240	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
200	240

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

8/20/24 7:34 AM MST

Point of Diversion Summary



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE ENGINEER'S OFFICE
ROSWELL, NEW MEXICO
2016 SEP 12 PM 2:09

				OSE FILE NUMBER(S) CP 01618	
WELL OWNER NAME(S) KEY LIVESTOCK, LLC				PHONE (OPTIONAL)	
WELL OWNER MAILING ADDRESS 1012 E 2ND ST				CITY ROSWELL	STATE NM
WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
	LATITUDE	32	43		
	LONGITUDE	104	5	30.08	W
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE					

2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD-1058		NAME OF LICENSED DRILLER DON KUEHN III		NAME OF WELL DRILLING COMPANY KEYS DRILLING & PUMP SERVICE INC.			
	DRILLING STARTED 08/23/16		DRILLING ENDED 08/26/16		DEPTH OF COMPLETED WELL (FT) 240		BORE HOLE DEPTH (FT) 240	
					DEPTH WATER FIRST ENCOUNTERED (FT) 180			
	COMPLETED WELL IS:		<input type="checkbox"/> ARTESIAN		<input type="checkbox"/> DRY HOLE		<input checked="" type="checkbox"/> SHALLOW (UNCONFINED)	
	DRILLING FLUID:		<input type="checkbox"/> AIR		<input checked="" type="checkbox"/> MUD		<input type="checkbox"/> 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	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
		0	200	8-3/4"	PVC	SPLINE	4-1/2"	SCH40
	200	240	8-3/4"	PVC	SPLINE	4-1/2"	SCH40	.030

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	8-3/4"	CEMENT		HAND
		20	240	8-3/4"	VEALMORE PEA GRAVEL		HAND

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	CP-1618	POD NUMBER	1	TRN NUMBER	591553
LOCATION	18S 29 E Sec 29 342				
					PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

5. TEST: RIG SUPERVISION

6. SIGNATURE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/08/2012)	
FILE NUMBER	CP-1618	POD NUMBER	
LOCATION	18S 29E Sec 29	342	TRN NUMBER : 591553

PAGE 2 OF 2

Appendix B

Field Data



Sample Log

3

Date: _____

Project: Pavo Frio Flow Line

Project Number: 20984 Latitude: 32.744072 Longitude: -104.115361

Sample ID	PID/Odor	Chloride Conc.	GPS
TT1e Surf	—	2584	
TT1e1'	—	1141 5640	
TT1e2'	—	7696	
TT1e3'	—	10,640	
TT1e4'	—	5,220	
TT1e5'	—	5,220	
TT1e6'	—	352	
TT1e7'	—	1141	
TT2e Surf		13,840	
TT2e1'		5,640	
TT2e2'		6,584	
TT2e3'		1,800	
TT2e4'		1,800	
TT2e5'		692	
TT2e6'		480	
TT3e Surf		1,736	
TT3e1'		884	
TT3e2'		632	
TT3e3'		580	
TT4e Surf		192	
TT4e1'		192	
TT5e Surf		284	
TT5e1'		284	
FL1e3'		1,104	
EW1		192	
WW1		192	
SW1		580	
FL1e4'		436	
FL2e4'		260	
FL3e3'		884	
FL3e4'		352	
FL4e4'		352	
FL5e4'		252	
FL6e4'		192	
FL7e4'		252	
FL8e3'		528	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: Pavo Frio Flow Line

Project Number: 20984

Latitude: 32.744072

Longitude: -104.115361

Sample ID	PID/Odor	Chloride Conc.	GPS
FL9 @ 3'		952	
FL9 @ 4'		1276	
FL9 @ 5'		2584	
FL9 @ 6'		692	
FL9 @ 7'		192	
FL10 @ 5'		220	
FL11 @ 5'		752	
FL11 @ 6'		144	
FL12 @ 6'		352	
FL13 @ 6'		392	
FL14 @ 5'		952	
FL14 @ 6'		192	
FL15 @ 5'		2584	
FL15 @ 6'		392	
FL16 @ 6'		316	
FL17 @ 6'		144	
FL18 @ 4'		384	
FL18 @ 5'		352	
FL19 @ 4'		2584	
FL19 @ 5'		144	
FL20 @ 4'		2584	
FL20 @ 5'		1800	
FL20 @ 6'		316	
FL21 @ 2'		692	
FL21 @ 3'		352	
EW2		192	
NW2		192	
FL22 @ 3'		276	
FL23 @ 3'		2544	
FL23 @ 4'		1768	
FL23 @ 5'		352	
FL24 @ 4'		216	
SW2		124	
NW1		124	
FL25 @ 4'		428	
FL26 @ 4'		160	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: Pavo Frio Flow Line

Project Number: 20984 Latitude: 32.744072 Longitude: 6 -104.115361

Sample ID	PID/Odor	Chloride Conc.	GPS
SW 3		160	
NW 2		160	
FL 27 e 3'		216	
FL 28 e 3'		1896	
FL 28 e 4'		1344	
FL 28 e 5'		872	
FL 28 e 6'		384	
FL 29 e 5'		384	
FL 30 e 4'		348	
FL 31 e 3'		744	
FL 31 e 4'		744	
FL 31 e 5'		244	
FL 32 e 4'		744	
FL 32 e 5'		384	
FL 33 e 4'		884	
FL 33 e 5'		216	
FL 34 e 5'		2188	
FL 34 e 6'		872	
FL 34 e 7'		348	
EW 3		348	
NW 3		384	
FL 35 e 5'		1256	
FL 35 e 6'		308	
FL 36 e 4'		160	
FL 37 e 3'		2544	
FL 37 e 4'		1088	
FL 37 e 5'		1256	
FL 37 e 6'		348	
FL 38 e 4'		872	
FL 38 e 5'		348	
FL 39 e 3'		1216	
FL 39 e 4'		692	
FL 39 e 5'		352	
EW 4		316	
NW 4		316	
FL 40 e 3'		1276	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: _____ Latitude: _____ Longitude: 4

Sample ID	PID/Odor	Chloride Conc.	GPS
FL40 e 4'		752	
FL40 e 5'		144	
FL41 e 3'		884	
FL41 e 4'		692	
FL41 e 5'		220	
FL42 e 3'		436	
FL43 e 3'		952	
FL43 e 4'		884	
FL43 e 5'		220	
FL44 e 5'		752	
FL44 e 6'		352	
FL45 e 6'		352	
FL46 e 5'		192	
FL47 e 5'		168	
FL48 e 5'		168	
WW 5		352	
FW 5		352	
FL49 e 4'		284	
FL50 e 3'		752	
FL50 e 4'		692	
FL50 e 5'		692	
FL50 e 6'		252	
FL51 e 5'		192	
FL52 e 3'		1104	
FL52 e 4'		752	
FL52 e 5'		632	
FL52 e 6'		316	
FL53 e 6'		392	
FL54 e 3'		884	
WW 6		284	
FW 6		284	
FL54 e 4'		284 884	
FL54 e 5'		1104	
FL54 e 6'		352	
FL55 e 6'		352	
FL56 e 10'		220	

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 Ar

10 0



Sample Log

Date: _____

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

Sample ID	PID/Odor	Chloride Conc.	GPS
FL57 e 3'		168	
FL58 e 3'		884	
FL58 e 4'		220	
FL59 e 4'		316	
EW 7		220	
WW 7		220	
FL60 e 4'		692	
FL60 e 5'		228	
FL61 e 4'		368	
FL62 e 3'		292	
FL63 e 3'		220	
FL64 e 3'		840	
EW 8		368	
WW 8		368	
FL64 e 4'		260	
FL65 e 4'		412	
FL66 e 4'		368	
FL67 e 4'		368	
FL68 e 3'		2140	
FL68 e 4'		456	
FL69 e 3'		884	
FL69 e 4'		412	
FL70 e 3'		368	
FL71 e 3'		260	
FL72 e 3'		196	
FL73 e 3'		776	
FL73 e 4'		332	
NW 1		368	
FL74 e 1'		292	
FL75 e 1'		500	
FL76 e 1'		368	
FL77 e 1'		1860	
FL77 e 2'		220	
FL78 e 1'		228	
FL79 e 2'		456	
FL80 e 2'			

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: 4

Project: _____

Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL81e 201-		412	
FL81e 201-		884	
FL82e 1-		884	
FL82e 2-		220	
FL83e 2-		220	
FL84e 01-		884	
FL84e 2-		412	
FL85e 1-		752	
FL85e 2-		908	
FL85e 3-		144	
FL86e 2-		220	
FL87e 3-		1860	
FL87e 4-		908	
FL87e 5-		220	
FL88e 4-		1408	
FL88e 5-		1056	
FL88e 6-		144	
FL89e 6-		220	
FL90e 6-		144	
NW2		220	
SW2		220	
FL91e 4-		752	
FL91e 5-		632	
FL91e 6-		412	
FL92e 6-		412	
FL93e 6-		368	
FL94e 6-		284	
FL94e 7-		220	
FL95e 6-		348	
FL96e 6-		228	
FL97e 6-		220	
FL98e 5-		632	
FL98e 6-		144	
SW3		144	
NW3		228	
FL99e 6-		144	

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 100 e 5'		1408	
FL 100 e 6'		1408	
FL 100 e 7'		456	
FL 35 e 7'		144	
FL 42 e 4'		220	
FL 101 e 5'		352	
FL 101 e 6'		368	
FL 102 e 5'		384	
FL 102 e 6'		632	
FL 102 e 7'		368	
FL 103 e 6'		368	
FL 104 e 6'		220	
FL 105 e 6'		352	
FL 106 e 6'		368	
FL 107 e 5'		908	
SW 4		144	
NW 4		220	
FL 107 e 6'		456	
FL 108 e 6'		332	
FL 109 e 6'		220	
FL 110 e 6'		220	
FL 111 e 6'		144	
FL 112 e 6'		144	
SW 5		220	
NW 5		220	
FL 113 e 6'		352	
FL 114 e 6 1/2'			
SW 6	3.6		
EW 9	3.8		
NW 9	3.6		
FL 115 e 6 1/2'	3.2		
FL 116 e 6 1/2'	3.8		
EW 10	3.8		
FL 79 e 3'	3.2		
FL 81 e 2'	3.6		

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 Cor



Sample Log

Date: _____

Project: ~~White Lake 20/21 W2800es with battery~~

Project Number: 20904 Latitude: 32.296191 Longitude: -104.11026

[illegible]

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: Pavo Frio Flow Line

Project Number: 20984 Latitude: 32.744072 Longitude: -104.115361

Sample ID	PID/Odor	Chloride Conc.	GPS
FL123 @ 4'	2.8	308	
FL124 @ 4'	1.4	116	
FL125 @ 4'	ND	ND	
FL126 @ 4'	1.4	116	
FL127 @ 4'	ND	ND	
FL128 @ 4'	ND	ND	
FL129 @ 4'	ND	ND	
FL130 @ 4'	ND	ND	
FL131 @ 4'	ND	ND	
FL132 @ 4'	ND	ND	
FL133 @ 4'	2.4	252	
FL134 @ 4'	1.6	144	
FL135 @ 4'	1.6	144	
FL136 @ 4'	ND	ND	
FL137 @ 4'	ND	ND	
FL138 @ 4'	ND	ND	
FL139 @ 4'	ND	ND	
FL140 @ 4'	ND	ND	
FL141 @ 4'	ND	ND	
FL142 @ 4'	ND	ND	
FL143 @ 4'	ND	ND	
FL144 @ 4'	ND	192	
FL145 @ 4'	ND	ND	
FL146 @ 4'	ND	ND	
FL147 @ 4'	ND	ND	
FL148 @ 4'	ND	ND	
FL149 @ 4'	ND	ND	
FL150 @ 4'	ND	ND	
FL151 @ 4'	ND	ND	
FL152 @ 4'	ND	ND	
FL153 @ 4'			
FL154 @ 4'	ND	ND	
FL155 @ 4'	ND	ND	
FL156 @ 4'	ND	ND	
FL157 @ 4'	1.6	144	
FL123 @ 5'			

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: Pavo Frio Flow Line

Project Number: 20984 Latitude: 32.744072 Longitude: -104.115361

[illegible]

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	
Date: 8/15/2024	
Coordinates: 32.744481,-104.115218	
Photo Direction: South-Southwest	
Photo Description: Aerial view of the affected area.	

Photo Number: 2	
Date: 8/15/2024	
Coordinates: 32.744258,-104.115317	
Photo Direction: South-Southwest	
Photo Description: Aerial view of the affected area.	

Photographic Log



Photo Number: 3	
Date: 8/15/2024	
Coordinates: 32.743521,-104.115462	
Photo Direction: South-Southwest	
Photo Description: Aerial view of the affected area.	

Photo Number: 4	
Date: 8/15/2024	
Coordinates: 32.741315,-104.116237	
Photo Direction: North-Northeast	
Photo Description: Aerial view of the affected area.	

Photographic Log



Photo Number: 5	
Date: 8/15/2024	
Coordinates: 32.742655,-104.115323	
Photo Direction: South-Southwest	
Photo Description: Aerial view of the affected area.	

Photo Number: 6	
Date: 8/15/2024	
Coordinates: 32.741689,-104.116127	
Photo Direction: South	
Photo Description: Aerial view of the affected area.	

Photographic Log



Photo Number: 7	<div>Sep 25, 2024 at 11:01:13 AM +32.743625,-104.115112 NM</div> 
Photo Direction: North-Northwest	
Photo Description: View of the excavated area.	

Photo Number: 8	<div>Sep 25, 2024 at 11:09:36 AM +32.743978,-104.115302 NM</div> 
Photo Direction: South-Southwest	
Photo Description: View of the excavated area.	

Photographic Log



Photo Number: 9	
Photo Direction: South-Southwest	
Photo Description: View of the excavated area.	

Photo Number: 10	
Photo Direction: South-Southwest	
Photo Description: View of the excavated area.	

Photographic Log



Photo Number: 11	
Photo Direction: South-Southwest	
Photo Description: View of the excavated area.	

Photo Number: 12	
Photo Direction: South-Southwest	
Photo Description: View of the excavated area.	

Photographic Log




Photo Number: 13	 <p>Sep 25, 2024 at 11:19:18 AM +32.742649,-104.115301 NM</p>
Photo Direction: South-Southwest	
Photo Description: View of the excavated area.	

Photo Number: 14	 <p>Sep 25, 2024 at 11:20:49 AM +32.742927,-104.115356 NM</p>
Photo Direction: South-Southwest	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 15	
Photo Direction: South-Southwest	
Photo Description: View of the remediated area during backfilling (showing topsoil thickness).	

Photo Number: 16	
Photo Direction: North-Northwest	
Photo Description: View of the remediated area during backfilling (showing topsoil thickness).	

Photographic Log



Photo Number: 17	 <p>Oct 7, 2024 at 2:49:44 PM +32.743506,-104.115091 NM</p>
Photo Direction: North-Northwest	
Photo Description: View of the remediated area following backfill and regrading.	

Photo Number: 18	 <p>Oct 7, 2024 at 2:49:47 PM +32.743506,-104.115091 NM</p>
Photo Direction: Southeast	
Photo Description: View of the remediated area following backfill and regrading.	

Photographic Log



Photo Number: 19	 <p>Oct 7, 2024 at 2:51:49 PM +32.743719,-104.115460 NM</p>
Photo Direction: South-Southwest	
Photo Description: View of the remediated area following backfill and regrading.	

Photo Number: 20	 <p>Oct 7, 2024 at 2:53:18 PM +32.743121,-104.115682 NM</p>
Photo Direction: South-Southwest	
Photo Description: View of the remediated area following backfill and regrading.	

Photographic Log



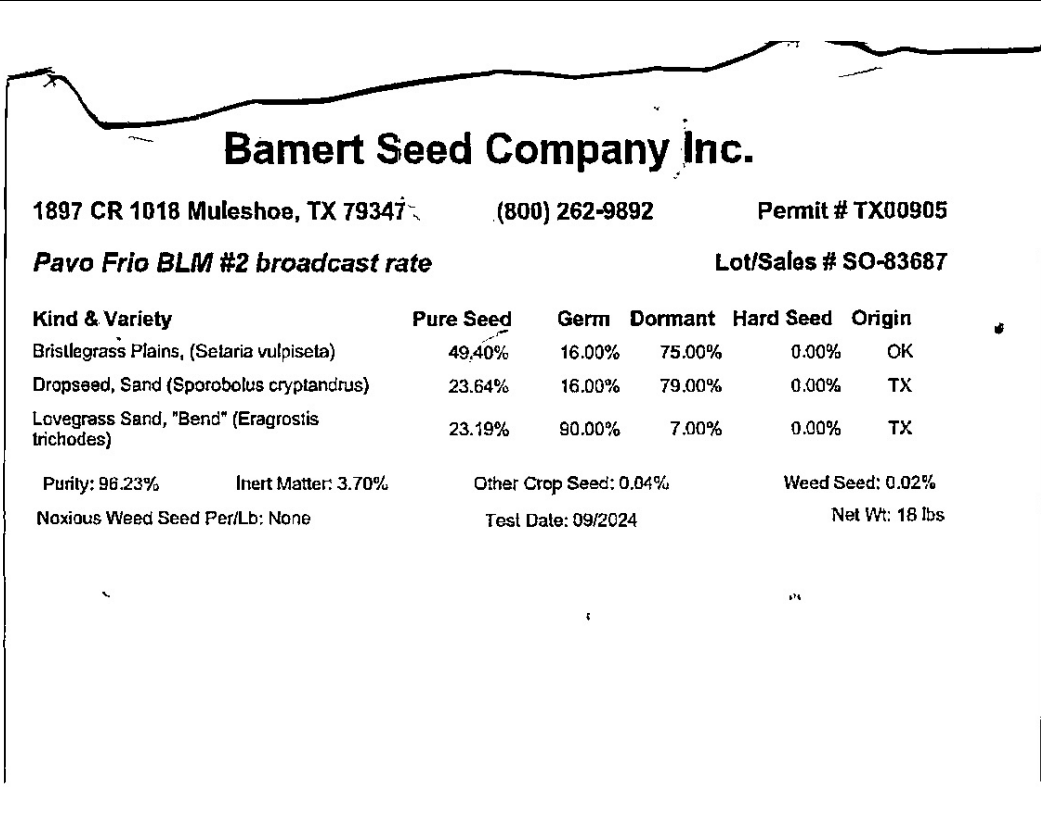
Photo Number: 21	 <p>Oct 7, 2024 at 2:54:24 PM +32.742562,-104.115734 NM</p>
Photo Direction: South-Southwest	
Photo Description: View of the remediated area following backfill and regrading.	

Photo Number: 22	 <p>Oct 7, 2024 at 2:55:14 PM +32.742168,-104.115859 NM</p>
Photo Direction: South-Southwest	
Photo Description: View of the remediated area following backfill and regrading.	

Photographic Log

Photo Number: 23	
Photo Direction: N/A	
Photo Description: BLM #2 seed tag.	

Bamert Seed Company Inc.


1897 CR 1018 Muleshoe, TX 79347 (800) 262-9892 Permit # TX00905

Pavo Frio BLM #2 broadcast rate Lot/Sales # SO-83687

Kind & Variety	Pure Seed	Germ	Dormant	Hard Seed	Origin
Bristlegrass Plains, (Setaria vulpiseta)	49.40%	16.00%	75.00%	0.00%	OK
Dropseed, Sand (Sporobolus cryptandrus)	23.64%	16.00%	79.00%	0.00%	TX
Lovegrass Sand, "Bend" (Eragrostis trichodes)	23.19%	90.00%	7.00%	0.00%	TX

Purity: 96.23% Inert Matter: 3.70% Other Crop Seed: 0.04% Weed Seed: 0.02%

Noxious Weed Seed Per/Lb: None Test Date: 09/2024 Net Wt: 18 lbs

Photo Number: 24	
Photo Direction: North-Northeast	
Photo Description: View of the remediated area during seeding event.	

Nov 5, 2024 at 1:08:33 PM
+32.743899, -104.115441
12° N
Altitude: 1077.7 meter
Speed: 0.0 km/h

Photographic Log



Photo Number: 25	
Photo Direction: East-Southeast	
Photo Description: View of the remediated area during seeding event.	

Photo Number: 26	
Photo Direction: South	
Photo Description: View of the remediated area during seeding event.	

Photographic Log



Photo Number: 27	
Photo Direction: South	
Photo Description: View of the remediated area following seeding event.	

Photo Number: 28	
Photo Direction: South-Southwest	
Photo Description: View of the remediated area following seeding event.	

Photographic Log



Photo Number: 29	
Photo Direction: Northeast	
Photo Description: View of re-excavated areas.	

Photo Number: 30	
Photo Direction: South	
Photo Description: View of re-excavated areas.	

Photographic Log



Photo Number: 31	 <p>Network: Feb 7, 2025 at 10:41:41 AM MST Local: Feb 7, 2025 at 10:41:41 AM MST N 32° 44' 34.971" W 104° 6' 57.167" Artesia NM 88210 United States</p>
Photo Direction: South-Southeast	
Photo Description: View of re-excavated areas.	

Photo Number: 32	 <p>Network: Feb 7, 2025 at 10:44:44 AM MST Local: Feb 7, 2025 at 10:44:44 AM MST N 32° 44' 31.274" W 104° 6' 57.708" Artesia NM 88210 United States</p>
Photo Direction: South-Southwest	
Photo Description: View of re-excavated areas.	

Photographic Log

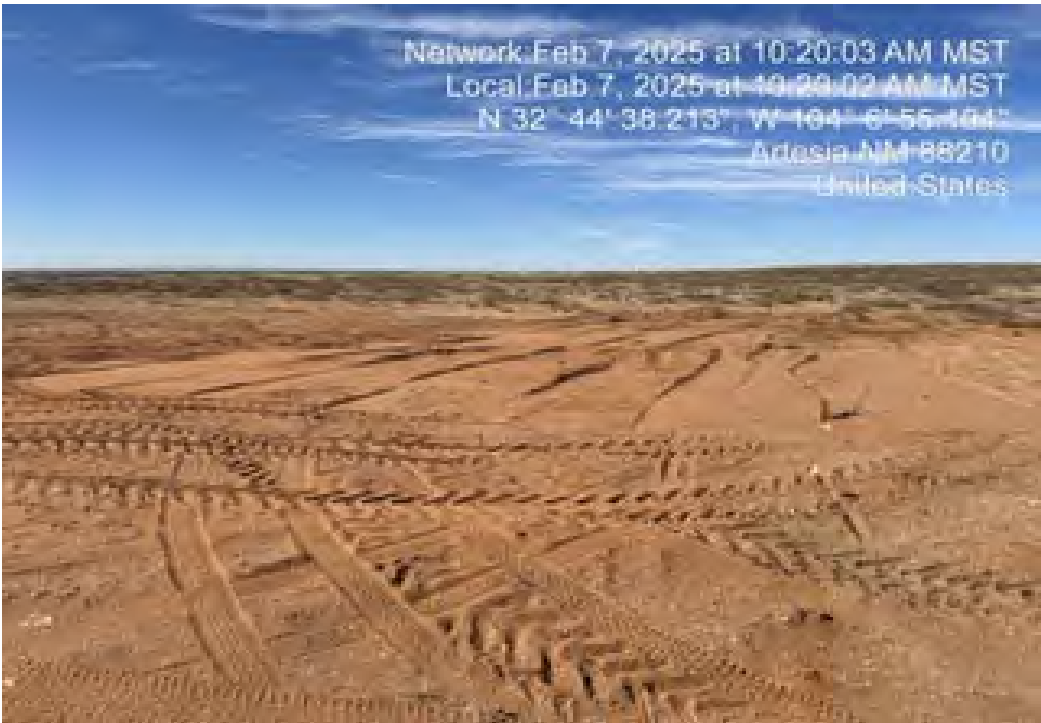
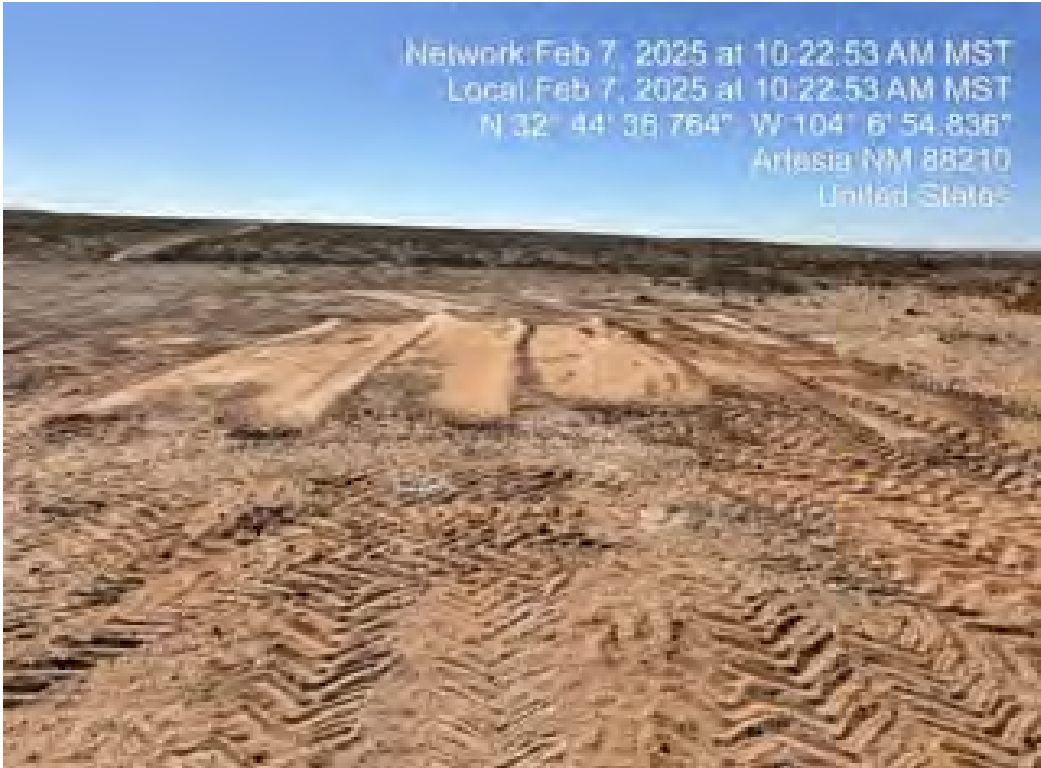
Photo Number: 33	 <p>Network: Feb 7, 2025 at 10:20:03 AM MST Local: Feb 7, 2025 at 10:20:02 AM MST N 32° 44' 38.213", W 104° 6' 56.104" Artesia NM 88210 United States</p>
Photo Direction: West	
Photo Description: View of re-excavated areas after backfilling and regrading.	

Photo Number: 34	 <p>Network: Feb 7, 2025 at 10:22:53 AM MST Local: Feb 7, 2025 at 10:22:53 AM MST N 32° 44' 36.764", W 104° 6' 54.836" Artesia NM 88210 United States</p>
Photo Direction: West	
Photo Description: View of re-excavated areas after backfilling and regrading.	

Photographic Log

Photo Number: 35	
Photo Direction: Southwest	
Photo Description: View of re-excavated areas after backfilling and regrading.	

Appendix D

Laboratory Analytical Reports



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

September 12, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PAVO FRIO FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 09/09/24 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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/09/2024
 Reported: 09/12/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT1@SURF (H245434-01)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/10/2024	ND	1.84	92.0	2.00	0.396		
Toluene*	<0.050	0.050	09/10/2024	ND	1.83	91.4	2.00	1.79		
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.90	95.1	2.00	2.90	QM-07	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.82	97.0	6.00	3.08	QM-07	
Total BTX	<0.300	0.300	09/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	2800	16.0	09/10/2024	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	09/10/2024	ND	208	104	200	2.39	
DRO >C10-C28*	419	10.0	09/10/2024	ND	203	101	200	1.60	
EXT DRO >C28-C36	99.1	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 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: 09/09/2024
 Reported: 09/12/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT1@1' (H245434-02)

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	09/10/2024	ND	1.84	92.0	2.00	0.396		
Toluene*	<0.050	0.050	09/10/2024	ND	1.83	91.4	2.00	1.79		
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.90	95.1	2.00	2.90		
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.82	97.0	6.00	3.08		
Total BTEX	<0.300	0.300	09/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	19200	16.0	09/10/2024	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	09/10/2024	ND	208	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	203	101	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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: 09/09/2024
 Reported: 09/12/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT1@2' (H245434-03)

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	09/10/2024	ND	1.84	92.0	2.00	0.396	
Toluene*	<0.050	0.050	09/10/2024	ND	1.83	91.4	2.00	1.79	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.90	95.1	2.00	2.90	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.82	97.0	6.00	3.08	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	20000	16.0	09/10/2024	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	09/10/2024	ND	208	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	203	101	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 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: 09/09/2024
 Reported: 09/12/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT1@3' (H245434-04)

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	09/10/2024	ND	1.84	92.0	2.00	0.396		
Toluene*	<0.050	0.050	09/10/2024	ND	1.83	91.4	2.00	1.79		
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.90	95.1	2.00	2.90		
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.82	97.0	6.00	3.08		
Total BTEX	<0.300	0.300	09/10/2024	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	12600	16.0	09/10/2024	ND	400	100	400	3.92	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	09/10/2024	ND	208	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	203	101	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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

Received: 09/09/2024
 Reported: 09/12/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT1@4' (H245434-05)

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	09/10/2024	ND	1.84	92.0	2.00	0.396		
Toluene*	<0.050	0.050	09/10/2024	ND	1.83	91.4	2.00	1.79		
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.90	95.1	2.00	2.90		
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.82	97.0	6.00	3.08		
Total BTEx	<0.300	0.300	09/10/2024	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	1600	16.0	09/10/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	208	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	203	101	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 115 % 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: 09/09/2024
 Reported: 09/12/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT1@5' (H245434-06)

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	09/10/2024	ND	1.84	92.0	2.00	0.396	
Toluene*	<0.050	0.050	09/10/2024	ND	1.83	91.4	2.00	1.79	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.90	95.1	2.00	2.90	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.82	97.0	6.00	3.08	
Total BTEX	<0.300	0.300	09/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6660	16.0	09/10/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	208	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	203	101	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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

Received: 09/09/2024
 Reported: 09/12/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT1@6' (H245434-07)

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	09/10/2024	ND	1.84	92.0	2.00	0.396	
Toluene*	<0.050	0.050	09/10/2024	ND	1.83	91.4	2.00	1.79	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.90	95.1	2.00	2.90	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.82	97.0	6.00	3.08	
Total BTEX	<0.300	0.300	09/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/10/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	208	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	203	101	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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: 09/09/2024
 Reported: 09/12/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT2@SURF (H245434-08)

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	09/10/2024	ND	1.84	92.0	2.00	0.396		
Toluene*	<0.050	0.050	09/10/2024	ND	1.83	91.4	2.00	1.79		
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.90	95.1	2.00	2.90		
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.82	97.0	6.00	3.08		
Total BTEX	<0.300	0.300	09/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	15800	16.0	09/10/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	09/11/2024	ND	208	104	200	2.39		
DRO >C10-C28*	11400	50.0	09/11/2024	ND	203	101	200	1.60		
EXT DRO >C28-C36	3280	50.0	09/11/2024	ND						

Surrogate: 1-Chlorooctane 138 % 48.2-134

Surrogate: 1-Chlorooctadecane 447 % 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: 09/09/2024
 Reported: 09/12/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT2@1' (H245434-09)

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	09/10/2024	ND	1.84	92.0	2.00	0.396		
Toluene*	<0.050	0.050	09/10/2024	ND	1.83	91.4	2.00	1.79		
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.90	95.1	2.00	2.90		
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.82	97.0	6.00	3.08		
Total BTEX	<0.300	0.300	09/10/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6160	16.0	09/10/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	208	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	203	101	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 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: 09/09/2024
 Reported: 09/12/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT2@2' (H245434-10)

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	09/10/2024	ND	1.84	92.0	2.00	0.396		
Toluene*	<0.050	0.050	09/10/2024	ND	1.83	91.4	2.00	1.79		
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.90	95.1	2.00	2.90		
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.82	97.0	6.00	3.08		
Total BTEx	<0.300	0.300	09/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	7000	16.0	09/10/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	208	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	203	101	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 119 % 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: 09/09/2024
 Reported: 09/12/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT2@3' (H245434-11)

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	09/10/2024	ND	1.84	92.0	2.00	0.396		
Toluene*	<0.050	0.050	09/10/2024	ND	1.83	91.4	2.00	1.79		
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.90	95.1	2.00	2.90		
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.82	97.0	6.00	3.08		
Total BTEx	<0.300	0.300	09/10/2024	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	2480	16.0	09/10/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	208	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	203	101	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 106 % 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: 09/09/2024
 Reported: 09/12/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT2@4' (H245434-12)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/10/2024	ND	1.84	92.0	2.00	0.396		
Toluene*	<0.050	0.050	09/10/2024	ND	1.83	91.4	2.00	1.79		
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.90	95.1	2.00	2.90		
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.82	97.0	6.00	3.08		
Total BTX	<0.300	0.300	09/10/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5840	16.0	09/10/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	208	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	203	101	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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: 09/09/2024
 Reported: 09/12/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT2@5' (H245434-13)

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	09/10/2024	ND	1.84	92.0	2.00	0.396		
Toluene*	<0.050	0.050	09/10/2024	ND	1.83	91.4	2.00	1.79		
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.90	95.1	2.00	2.90		
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.82	97.0	6.00	3.08		
Total BTEX	<0.300	0.300	09/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	848	16.0	09/10/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	208	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	203	101	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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: 09/09/2024
 Reported: 09/12/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT2@6' (H245434-14)

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	09/10/2024	ND	1.84	92.0	2.00	0.396	
Toluene*	<0.050	0.050	09/10/2024	ND	1.83	91.4	2.00	1.79	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.90	95.1	2.00	2.90	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.82	97.0	6.00	3.08	
Total BTEX	<0.300	0.300	09/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/10/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	208	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	203	101	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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: 09/09/2024
 Reported: 09/12/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT3@SURF (H245434-15)

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	09/10/2024	ND	1.84	92.0	2.00	0.396	
Toluene*	<0.050	0.050	09/10/2024	ND	1.83	91.4	2.00	1.79	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.90	95.1	2.00	2.90	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.82	97.0	6.00	3.08	
Total BTEx	<0.300	0.300	09/10/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	09/10/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	208	104	200	2.39	
DRO >C10-C28*	80.7	10.0	09/10/2024	ND	203	101	200	1.60	
EXT DRO >C28-C36	35.4	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 119 % 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: 09/09/2024
 Reported: 09/12/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT3@1' (H245434-16)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2024	ND	1.84	92.0	2.00	0.396	
Toluene*	<0.050	0.050	09/10/2024	ND	1.83	91.4	2.00	1.79	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.90	95.1	2.00	2.90	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.82	97.0	6.00	3.08	
Total BTX	<0.300	0.300	09/10/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	09/10/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	208	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	203	101	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 105 % 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: 09/09/2024
 Reported: 09/12/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT3@2' (H245434-17)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2024	ND	1.85	92.4	2.00	6.91	
Toluene*	<0.050	0.050	09/10/2024	ND	2.07	103	2.00	3.77	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	2.21	111	2.00	3.29	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.80	113	6.00	2.44	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 146 % 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	512	16.0	09/10/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	208	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	203	101	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 118 % 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: 09/09/2024
 Reported: 09/12/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT3@3' (H245434-18)

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	09/10/2024	ND	1.85	92.4	2.00	6.91		
Toluene*	<0.050	0.050	09/10/2024	ND	2.07	103	2.00	3.77		
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	2.21	111	2.00	3.29		
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.80	113	6.00	2.44		
Total BTEX	<0.300	0.300	09/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 132 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	09/10/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	208	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	203	101	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 115 % 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: 09/09/2024
 Reported: 09/12/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT4@SURF (H245434-19)

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2024	ND	1.85	92.4	2.00	6.91	
Toluene*	<0.050	0.050	09/10/2024	ND	2.07	103	2.00	3.77	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	2.21	111	2.00	3.29	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.80	113	6.00	2.44	
Total BTX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 148 % 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	09/10/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	208	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	203	101	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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: 09/09/2024
 Reported: 09/12/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT4@1' (H245434-20)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2024	ND	1.85	92.4	2.00	6.91	
Toluene*	<0.050	0.050	09/10/2024	ND	2.07	103	2.00	3.77	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	2.21	111	2.00	3.29	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.80	113	6.00	2.44	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 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	09/10/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	211	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	201	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 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: 09/09/2024
 Reported: 09/12/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT5@SURF (H245434-21)

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	09/10/2024	ND	1.85	92.4	2.00	6.91		
Toluene*	<0.050	0.050	09/10/2024	ND	2.07	103	2.00	3.77		
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	2.21	111	2.00	3.29		
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.80	113	6.00	2.44		
Total BTEx	<0.300	0.300	09/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 131 % 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	09/10/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	211	106	200	2.29	
DRO >C10-C28*	13.0	10.0	09/10/2024	ND	201	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 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: 09/09/2024
 Reported: 09/12/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT5@1' (H245434-22)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2024	ND	1.85	92.4	2.00	6.91	
Toluene*	<0.050	0.050	09/10/2024	ND	2.07	103	2.00	3.77	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	2.21	111	2.00	3.29	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.80	113	6.00	2.44	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 147 % 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	496	16.0	09/10/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	211	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	201	100	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 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

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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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

Page 1 of 3

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>											
Address: 2617 West Marland				Company: Mewbourne															
City: Hobbs		State: NM		Zip: 88240		Attn: Connor Walker													
Phone #: (575) 264-9884		Fax #:		Address:															
Project #: 20984		Project Owner: Mewbourne		City:															
Project Name: Pavo Frio Flow Line				State:		Zip:													
Project Location: 32.744072, -104.115361				Phone #:															
Sampler Name: Patrick Muniez				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					
H1245434																			
1		TT 1 @ Surf		G 1		X				X		9/6/24							
2		TT 1 @ 1'		G 1		X				X		9/6/24							
3		TT 1 @ 2'		G 1		X				X		9/6/24							
4		TT 1 @ 3'		G 1		X				X		9/6/24							
5		TT 1 @ 4'		G 1		X				X		9/6/24							
6		TT 1 @ 5'		G 1		X				X		9/6/24							
7		TT 1 @ 6'		G 1		X				X		9/6/24							
8		TT 2 @ Surf		G 1		X				X		9/6/24							
9		TT 2 @ 1'		G 1		X				X		9/6/24							
10		TT 2 @ 2'		G 1		X				X		9/6/24							

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Relinquished By:		Date: 9-9-24		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 1440		Time:				All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
Time:		Time:					
Delivered By: (Circle One)		Observed Temp. °C: -12.0°C		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) AD	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: -12.0°C		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input 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"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	



CARDINAL
Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 3

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 #: 20984 Project Owner: Mewbourne						City:																	
Project Name: Pavo Frio Flow Line						State: Zip:																	
Project Location: 32.744072, -104.115361						Phone #:																	
Sampler Name: Patrick Muniez						Fax #:																	
FOR LAB USE ONLY		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											
H245124																							
11		TT 2 @ 3'		G 1			X				X	9/6/24		X	X	X							
12		TT 2 @ 4'		G 1			X				X	9/6/24		X	X	X							
13		TT 2 @ 5'		G 1			X				X	9/6/24		X	X	X							
14		TT 2 @ 6'		G 1			X				X	9/6/24		X	X	X							
15		TT 3 @ Surf		G 1			X				X	9/6/24		X	X	X							
16		TT 3 @ 1'		G 1			X				X	9/6/24		X	X	X							
17		TT 3 @ 2'		G 1			X				X	9/6/24		X	X	X							
18		TT 3 @ 3'		G 1			X				X	9/6/24		X	X	X							
19		TT 4 @ Surf		G 1			X				X	9/6/24		X	X	X							
20		TT 4 @ 1'		G 1			X				X	9/6/24		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: [Signature]				Date: 9-9-24		Received By: [Signature]				Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:													
Relinquished By:				Time: 1440		Received By:				All Results are emailed. Please provide Email address: pm@etechenv.com													
Relinquished By:				Date:		Received By:				REMARKS:													
Relinquished By:				Time:		Received By:																	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Observed Temp. °C Corrected Temp. °C		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No				CHECKED BY: (Initials) AD				Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>				Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C					
				-12.0°C -12.4°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

Page 3 of 3

Company Name: Etch Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Address: 2617 West Marland				Company: Mewbourne																									
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																									
Phone #: (575) 264-9884 Fax #:				Address:																									
Project #: 20984 Project Owner: Mewbourne				City:																									
Project Name: Pavo Frio Flow Line				State: Zip:																									
Project Location: 32.744072, -104.115361				Phone #:																									
Sampler Name: Patrick Muniez				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	
H745434		TT 5 @ Surf		G		1						X								X						9/6/24			
21 22		TT 5 @ 1'		G		1						X								X						9/6/24			

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Relinquished By:		Date: 9-9-24		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 1440		Time: 1440		Time: 1440		All Results are emailed. Please provide Email address: pm@etechenv.com	
Refiniquished By:		Date:		Received By:		REMARKS:	
Time:		Time:		Time:		Time:	
Delivered By: (Circle One)		Observed Temp. °C -12.0		Sample Condition Cool Intact		CHECKED BY: (Initials) AP	
Sampler - UPS - Bus - Other:		Corrected Temp. °C -12.0		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
						Thermometer ID #140 Correction Factor -0.6°C	
						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	



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

September 16, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PAVO FRIO FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 09/11/24 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". 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 1 @ 4' (H245503-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2024	ND	2.22	111	2.00	0.176	
Toluene*	<0.050	0.050	09/12/2024	ND	2.17	109	2.00	5.14	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.28	114	2.00	8.78	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.95	116	6.00	9.31	
Total BTX	<0.300	0.300	09/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/12/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	190	95.1	200	1.83	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	182	90.8	200	0.185	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 2 @ 4' (H245503-02)

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	09/12/2024	ND	2.22	111	2.00	0.176		
Toluene*	<0.050	0.050	09/12/2024	ND	2.17	109	2.00	5.14		
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.28	114	2.00	8.78		
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.95	116	6.00	9.31		
Total BTEX	<0.300	0.300	09/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	190	95.1	200	1.83	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	182	90.8	200	0.185	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 3 @ 4' (H245503-03)

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	09/12/2024	ND	2.22	111	2.00	0.176		
Toluene*	<0.050	0.050	09/12/2024	ND	2.17	109	2.00	5.14		
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.28	114	2.00	8.78		
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.95	116	6.00	9.31		
Total BTEX	<0.300	0.300	09/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	09/12/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	190	95.1	200	1.83	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	182	90.8	200	0.185	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 89.1 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 4 @ 4' (H245503-04)

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	09/12/2024	ND	2.10	105	2.00	1.60		
Toluene*	<0.050	0.050	09/12/2024	ND	2.12	106	2.00	0.947		
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.11	105	2.00	0.0716		
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.51	108	6.00	0.0756		
Total BTEX	<0.300	0.300	09/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	190	95.1	200	1.83	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	182	90.8	200	0.185	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 86.4 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 5 @ 4' (H245503-05)

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	09/12/2024	ND	2.10	105	2.00	1.60		
Toluene*	<0.050	0.050	09/12/2024	ND	2.12	106	2.00	0.947		
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.11	105	2.00	0.0716		
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.51	108	6.00	0.0756		
Total BTEX	<0.300	0.300	09/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	190	95.1	200	1.83	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	182	90.8	200	0.185	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 6 @ 4' (H245503-06)

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	09/12/2024	ND	2.10	105	2.00	1.60	
Toluene*	<0.050	0.050	09/12/2024	ND	2.12	106	2.00	0.947	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.11	105	2.00	0.0716	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.51	108	6.00	0.0756	
Total BTEX	<0.300	0.300	09/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	190	95.1	200	1.83	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	182	90.8	200	0.185	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Analytical Results For:

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

Received: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 7 @ 4' (H245503-07)

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	09/12/2024	ND	2.10	105	2.00	1.60	
Toluene*	<0.050	0.050	09/12/2024	ND	2.12	106	2.00	0.947	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.11	105	2.00	0.0716	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.51	108	6.00	0.0756	
Total BTEX	<0.300	0.300	09/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	190	95.1	200	1.83	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	182	90.8	200	0.185	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 76.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 8 @ 3' (H245503-08)

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	09/12/2024	ND	2.10	105	2.00	1.60	
Toluene*	<0.050	0.050	09/12/2024	ND	2.12	106	2.00	0.947	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.11	105	2.00	0.0716	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.51	108	6.00	0.0756	
Total BTEx	<0.300	0.300	09/12/2024	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	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	190	95.1	200	1.83	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	182	90.8	200	0.185	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 87.5 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 9 @ 7' (H245503-09)

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	09/12/2024	ND	2.10	105	2.00	1.60		
Toluene*	<0.050	0.050	09/12/2024	ND	2.12	106	2.00	0.947		
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.11	105	2.00	0.0716		
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.51	108	6.00	0.0756		
Total BTEX	<0.300	0.300	09/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	190	95.1	200	1.83	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	182	90.8	200	0.185	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 10 @ 5' (H245503-10)

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	09/12/2024	ND	2.10	105	2.00	1.60	
Toluene*	<0.050	0.050	09/12/2024	ND	2.12	106	2.00	0.947	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.11	105	2.00	0.0716	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.51	108	6.00	0.0756	
Total BTEx	<0.300	0.300	09/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	190	95.1	200	1.83	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	182	90.8	200	0.185	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 11 @ 6' (H245503-11)

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	09/12/2024	ND	2.10	105	2.00	1.60	
Toluene*	<0.050	0.050	09/12/2024	ND	2.12	106	2.00	0.947	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.11	105	2.00	0.0716	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.51	108	6.00	0.0756	
Total BTEX	<0.300	0.300	09/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	190	95.1	200	1.83	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	182	90.8	200	0.185	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 12 @ 6' (H245503-12)

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	09/12/2024	ND	2.10	105	2.00	1.60		
Toluene*	<0.050	0.050	09/12/2024	ND	2.12	106	2.00	0.947		
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.11	105	2.00	0.0716		
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.51	108	6.00	0.0756		
Total BTEX	<0.300	0.300	09/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	400	16.0	09/12/2024	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	09/12/2024	ND	190	95.1	200	1.83	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	182	90.8	200	0.185	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 83.2 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 13 @ 6' (H245503-13)

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	09/12/2024	ND	2.10	105	2.00	1.60		
Toluene*	<0.050	0.050	09/12/2024	ND	2.12	106	2.00	0.947		
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.11	105	2.00	0.0716		
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.51	108	6.00	0.0756		
Total BTEX	<0.300	0.300	09/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	64.0	16.0	09/12/2024	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	09/12/2024	ND	190	95.1	200	1.83	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	182	90.8	200	0.185	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 85.3 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 14 @ 6' (H245503-14)

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	09/12/2024	ND	2.10	105	2.00	1.60	
Toluene*	<0.050	0.050	09/12/2024	ND	2.12	106	2.00	0.947	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.11	105	2.00	0.0716	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.51	108	6.00	0.0756	
Total BTEx	<0.300	0.300	09/12/2024	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	128	16.0	09/12/2024	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	09/12/2024	ND	190	95.1	200	1.83	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	182	90.8	200	0.185	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 15 @ 6' (H245503-15)

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	09/12/2024	ND	2.10	105	2.00	1.60		
Toluene*	<0.050	0.050	09/12/2024	ND	2.12	106	2.00	0.947		
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.11	105	2.00	0.0716		
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.51	108	6.00	0.0756		
Total BTEX	<0.300	0.300	09/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	09/12/2024	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	09/12/2024	ND	190	95.1	200	1.83	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	182	90.8	200	0.185	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 16 @ 6' (H245503-16)

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	09/12/2024	ND	2.10	105	2.00	1.60	
Toluene*	<0.050	0.050	09/12/2024	ND	2.12	106	2.00	0.947	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.11	105	2.00	0.0716	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.51	108	6.00	0.0756	
Total BTEX	<0.300	0.300	09/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	144	16.0	09/12/2024	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	09/12/2024	ND	190	95.1	200	1.83	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	182	90.8	200	0.185	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 93.7 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 17 @ 6' (H245503-17)

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	09/12/2024	ND	2.10	105	2.00	1.60	
Toluene*	<0.050	0.050	09/12/2024	ND	2.12	106	2.00	0.947	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.11	105	2.00	0.0716	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.51	108	6.00	0.0756	
Total BTEx	<0.300	0.300	09/12/2024	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	16.0	16.0	09/12/2024	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	09/12/2024	ND	190	95.1	200	1.83	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	182	90.8	200	0.185	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 18 @ 5' (H245503-18)

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	09/12/2024	ND	2.10	105	2.00	1.60	
Toluene*	<0.050	0.050	09/12/2024	ND	2.12	106	2.00	0.947	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.11	105	2.00	0.0716	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.51	108	6.00	0.0756	
Total BTEx	<0.300	0.300	09/12/2024	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	16.0	16.0	09/12/2024	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	09/12/2024	ND	190	95.1	200	1.83	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	182	90.8	200	0.185	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 19 @ 5' (H245503-19)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2024	ND	2.10	105	2.00	1.60	
Toluene*	<0.050	0.050	09/12/2024	ND	2.12	106	2.00	0.947	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.11	105	2.00	0.0716	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.51	108	6.00	0.0756	
Total BTX	<0.300	0.300	09/12/2024	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	16.0	16.0	09/12/2024	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	09/12/2024	ND	190	95.1	200	1.83	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	182	90.8	200	0.185	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 20 @ 6' (H245503-20)

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	09/12/2024	ND	2.10	105	2.00	1.60	
Toluene*	<0.050	0.050	09/12/2024	ND	2.12	106	2.00	0.947	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.11	105	2.00	0.0716	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.51	108	6.00	0.0756	
Total BTEx	<0.300	0.300	09/12/2024	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	912	16.0	09/12/2024	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	09/12/2024	ND	190	95.1	200	1.83	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	182	90.8	200	0.185	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 21 @ 3' (H245503-21)

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	09/12/2024	ND	2.10	105	2.00	1.60	
Toluene*	<0.050	0.050	09/12/2024	ND	2.12	106	2.00	0.947	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.11	105	2.00	0.0716	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.51	108	6.00	0.0756	
Total BTEX	<0.300	0.300	09/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	09/12/2024	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	09/12/2024	ND	203	101	200	1.25	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	207	104	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 22 @ 3' (H245503-22)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2024	ND	2.10	105	2.00	1.60	
Toluene*	<0.050	0.050	09/12/2024	ND	2.12	106	2.00	0.947	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.11	105	2.00	0.0716	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.51	108	6.00	0.0756	
Total BTX	<0.300	0.300	09/12/2024	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	32.0	16.0	09/12/2024	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	09/12/2024	ND	203	101	200	1.25	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	207	104	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 92.2 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 23 @ 5' (H245503-23)

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	09/12/2024	ND	2.10	105	2.00	1.60	
Toluene*	<0.050	0.050	09/12/2024	ND	2.12	106	2.00	0.947	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	2.11	105	2.00	0.0716	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	6.51	108	6.00	0.0756	
Total BTEx	<0.300	0.300	09/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	1100	16.0	09/12/2024	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	09/12/2024	ND	203	101	200	1.25	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	207	104	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 24 @ 4' (H245503-24)

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	09/12/2024	ND	1.98	99.2	2.00	3.40	
Toluene*	<0.050	0.050	09/12/2024	ND	1.92	95.8	2.00	3.74	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.92	96.2	2.00	4.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.72	95.4	6.00	4.04	
Total BTEX	<0.300	0.300	09/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	09/12/2024	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	09/12/2024	ND	203	101	200	1.25	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	207	104	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 25 @ 4' (H245503-25)

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	09/12/2024	ND	1.98	99.2	2.00	3.40	
Toluene*	<0.050	0.050	09/12/2024	ND	1.92	95.8	2.00	3.74	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.92	96.2	2.00	4.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.72	95.4	6.00	4.04	
Total BTEX	<0.300	0.300	09/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	09/12/2024	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	09/12/2024	ND	203	101	200	1.25	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	207	104	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 26 @ 4' (H245503-26)

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	09/12/2024	ND	1.98	99.2	2.00	3.40		
Toluene*	<0.050	0.050	09/12/2024	ND	1.92	95.8	2.00	3.74		
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.92	96.2	2.00	4.10		
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.72	95.4	6.00	4.04		
Total BTEx	<0.300	0.300	09/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	09/12/2024	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	09/12/2024	ND	203	101	200	1.25	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	207	104	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 27 @ 3' (H245503-27)

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	09/12/2024	ND	1.98	99.2	2.00	3.40		
Toluene*	<0.050	0.050	09/12/2024	ND	1.92	95.8	2.00	3.74		
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.92	96.2	2.00	4.10		
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.72	95.4	6.00	4.04		
Total BTEX	<0.300	0.300	09/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/12/2024	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	09/12/2024	ND	203	101	200	1.25	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	207	104	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 28 @ 6' (H245503-28)

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	09/12/2024	ND	1.98	99.2	2.00	3.40	
Toluene*	<0.050	0.050	09/12/2024	ND	1.92	95.8	2.00	3.74	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.92	96.2	2.00	4.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.72	95.4	6.00	4.04	
Total BTEX	<0.300	0.300	09/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/12/2024	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	09/12/2024	ND	203	101	200	1.25	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	207	104	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 29 @ 5' (H245503-29)

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	09/12/2024	ND	1.98	99.2	2.00	3.40	
Toluene*	<0.050	0.050	09/12/2024	ND	1.92	95.8	2.00	3.74	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.92	96.2	2.00	4.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.72	95.4	6.00	4.04	
Total BTEX	<0.300	0.300	09/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	64.0	16.0	09/12/2024	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	09/12/2024	ND	203	101	200	1.25	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	207	104	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 30 @ 4' (H245503-30)

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	09/12/2024	ND	1.98	99.2	2.00	3.40	
Toluene*	<0.050	0.050	09/12/2024	ND	1.92	95.8	2.00	3.74	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.92	96.2	2.00	4.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.72	95.4	6.00	4.04	
Total BTEX	<0.300	0.300	09/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/12/2024	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	09/12/2024	ND	203	101	200	1.25	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	207	104	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 31 @ 5' (H245503-31)

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	09/12/2024	ND	1.98	99.2	2.00	3.40		
Toluene*	<0.050	0.050	09/12/2024	ND	1.92	95.8	2.00	3.74		
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.92	96.2	2.00	4.10		
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.72	95.4	6.00	4.04		
Total BTEX	<0.300	0.300	09/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	64.0	16.0	09/12/2024	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	09/12/2024	ND	203	101	200	1.25	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	207	104	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 32 @ 5' (H245503-32)

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	09/12/2024	ND	1.98	99.2	2.00	3.40		
Toluene*	<0.050	0.050	09/12/2024	ND	1.92	95.8	2.00	3.74		
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.92	96.2	2.00	4.10		
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.72	95.4	6.00	4.04		
Total BTEX	<0.300	0.300	09/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/12/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	203	101	200	1.25	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	207	104	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 33 @ 5' (H245503-33)

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	09/12/2024	ND	1.98	99.2	2.00	3.40	
Toluene*	<0.050	0.050	09/12/2024	ND	1.92	95.8	2.00	3.74	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.92	96.2	2.00	4.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.72	95.4	6.00	4.04	
Total BTEX	<0.300	0.300	09/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	203	101	200	1.25	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	207	104	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: NW 1 (H245503-34)

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	09/12/2024	ND	1.98	99.2	2.00	3.40	
Toluene*	<0.050	0.050	09/12/2024	ND	1.92	95.8	2.00	3.74	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.92	96.2	2.00	4.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.72	95.4	6.00	4.04	
Total BTEX	<0.300	0.300	09/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	203	101	200	1.25	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	207	104	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: NW 2 (H245503-35)

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	09/12/2024	ND	1.98	99.2	2.00	3.40	
Toluene*	<0.050	0.050	09/12/2024	ND	1.92	95.8	2.00	3.74	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.92	96.2	2.00	4.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.72	95.4	6.00	4.04	
Total BTEX	<0.300	0.300	09/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/12/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	203	101	200	1.25	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	207	104	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 66.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.2 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 1 (H245503-36)

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	09/12/2024	ND	1.98	99.2	2.00	3.40		
Toluene*	<0.050	0.050	09/12/2024	ND	1.92	95.8	2.00	3.74		
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.92	96.2	2.00	4.10		
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.72	95.4	6.00	4.04		
Total BTEX	<0.300	0.300	09/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	203	101	200	1.25	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	207	104	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 2 (H245503-37)

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	09/12/2024	ND	1.98	99.2	2.00	3.40		
Toluene*	<0.050	0.050	09/12/2024	ND	1.92	95.8	2.00	3.74		
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.92	96.2	2.00	4.10		
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.72	95.4	6.00	4.04		
Total BTEX	<0.300	0.300	09/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	203	101	200	1.25	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	207	104	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 1 (H245503-38)

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	09/12/2024	ND	1.98	99.2	2.00	3.40		
Toluene*	<0.050	0.050	09/12/2024	ND	1.92	95.8	2.00	3.74		
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.92	96.2	2.00	4.10		
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.72	95.4	6.00	4.04		
Total BTEX	<0.300	0.300	09/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	203	101	200	1.25	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	207	104	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 2 (H245503-39)

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	09/12/2024	ND	1.98	99.2	2.00	3.40	
Toluene*	<0.050	0.050	09/12/2024	ND	1.92	95.8	2.00	3.74	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.92	96.2	2.00	4.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.72	95.4	6.00	4.04	
Total BTEX	<0.300	0.300	09/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	203	101	200	1.25	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	207	104	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 3 (H245503-40)

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	09/12/2024	ND	1.98	99.2	2.00	3.40	
Toluene*	<0.050	0.050	09/12/2024	ND	1.92	95.8	2.00	3.74	
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.92	96.2	2.00	4.10	
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.72	95.4	6.00	4.04	
Total BTEX	<0.300	0.300	09/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	240	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	203	101	200	1.25	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	207	104	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 1 (H245503-41)

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	09/12/2024	ND	1.98	99.2	2.00	3.40		
Toluene*	<0.050	0.050	09/12/2024	ND	1.92	95.8	2.00	3.74		
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.92	96.2	2.00	4.10		
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.72	95.4	6.00	4.04		
Total BTEX	<0.300	0.300	09/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/12/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	193	96.6	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	189	94.5	200	0.275	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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: 09/11/2024
 Reported: 09/16/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 2 (H245503-42)

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	09/12/2024	ND	1.98	99.2	2.00	3.40		
Toluene*	<0.050	0.050	09/12/2024	ND	1.92	95.8	2.00	3.74		
Ethylbenzene*	<0.050	0.050	09/12/2024	ND	1.92	96.2	2.00	4.10		
Total Xylenes*	<0.150	0.150	09/12/2024	ND	5.72	95.4	6.00	4.04		
Total BTEX	<0.300	0.300	09/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	193	96.6	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	189	94.5	200	0.275	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Caley D. Keene, Lab Director/Quality Manager

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


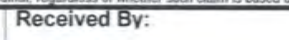

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 5

Page 45 of 49

[illegible]

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Relinquished By: 		Date: 9/11/24	Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
		Time: 1:57			All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:	Received By:		REMARKS:	
		Time:				
Delivered By: (Circle One)	Observed Temp. °C: -8.8°C	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: -9.4°C	Cool <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Thermometer ID #140 Correction Factor -0.6°C		Cool <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C
						Corrected Temp. °C



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 2 of 5

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Address: 2617 West Marland				Company: Mewbourne																									
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																									
Phone #: (575) 264-9884 Fax #:				Address:																									
Project #: 20984 Project Owner: Mewbourne				City:																									
Project Name: Pavo Frio Flow Line				State: Zip:																									
Project Location: 32.744072, -104.115361				Phone #:																									
Sampler Name: Patrick Muniez				Fax #:																									
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																			
Lab I.D.		Sample I.D.		(GRAB OR C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME	
11245603				C 1								X								X						9/11/24			
12		FL 12 @ 6'		C 1								X								X						9/11/24			
13		FL 13 @ 6'		C 1								X								X						9/11/24			
14		FL 14 @ 6'		C 1								X								X						9/11/24			
15		FL 15 @ 6'		C 1								X								X						9/11/24			
16		FL 16 @ 6'		C 1								X								X						9/11/24			
17		FL 17 @ 6'		C 1								X								X						9/11/24			
18		FL 18 @ 5'		C 1								X								X						9/11/24			
19		FL 19 @ 5'		C 1								X								X						9/11/24			
20		FL 20 @ 6'		C 1								X								X						9/11/24			

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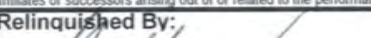
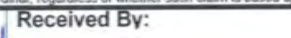

Relinquished By:		Date: 9/11/24		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: 1457						All Results are emailed. Please provide Email address:		pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:			
Time:									
Delivered By: (Circle One)		Observed Temp. °C 8.8		Sample Condition Cool Intact		CHECKED BY: (Initials)		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C -9.4		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Thermometer ID #140	
				<input type="checkbox"/> No <input type="checkbox"/> No				Correction Factor -0.6°C	
								Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	

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

Page 3 of 5

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Relinquished By: 		Date: 9-11-24		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
		Time: 1457				All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:					
Delivered By: (Circle One)		Observed Temp. °C: -8.8		Sample Condition		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: -9.4		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/>		Bacteria (only) Sample Condition	
				CHECKED BY: (Initials) 		Cool Intact Observed Temp. °C	
						Thermometer ID #140 Correction Factor -0.6°C	
						Cool Intact Observed Temp. °C	
						Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C	

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


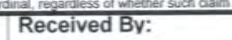

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 5

Page 48 of 49

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Relinquished By: 		Date: 9-11-21 Time: 1457		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:					
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: -8.8°C Corrected Temp. °C: -9.4°C		Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) 	
				Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No	
				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

Page 5 of 5

Company Name: Etech Environmental & Safety Solutions, Inc.		BILL TO		ANALYSIS REQUEST																			
Project Manager: Lance Crenshaw		P.O. #:		<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 West Marland		Company: Mewbourne																					
City: Hobbs State: NM Zip: 88240		Attn: Connor Walker																					
Phone #: (575) 264-9884 Fax #:		Address:																					
Project #: 20984 Project Owner: Mewbourne		City:																					
Project Name: Pavo Frio Flow Line		State: Zip:																					
Project Location: 32.744072, -104.115361		Phone #:																					
Sampler Name: Patrick Muniez		Fax #:																					
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING															
Lab I.D.	Sample I.D.	(GIRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME									
41	WW 1	C	1			X					X		9/11/24		X	X	X						
42	WW 2	C	1			X					X		9/11/24		X	X	X						

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Relinquished By:		Date: 9/11/24	Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 1457		Time:		All Results are emailed. Please provide Email address: pm@etechenv.com		
Relinquished By:		Date:	Received By:		REMARKS:	
Time:		Time:				
Delivered By: (Circle One)		Observed Temp. °C: -8.8°C	Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: -9.4°C	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
			Bacteria (only) Sample Condition		Thermometer ID #140	
			Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Correction Factor -0.6°C	
			Observed Temp. °C		Bacteria (only) Sample Condition	
			Corrected Temp. °C		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	

FORM-006 R 3.5 08/05/24

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



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

September 17, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PAVO FRIO FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 09/12/24 14:44.

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: 09/12/2024
 Reported: 09/17/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 34 @ 7' (H245540-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2024	ND	2.21	111	2.00	1.80	
Toluene*	<0.050	0.050	09/14/2024	ND	2.27	113	2.00	0.101	
Ethylbenzene*	<0.050	0.050	09/14/2024	ND	2.44	122	2.00	0.634	
Total Xylenes*	<0.150	0.150	09/14/2024	ND	7.39	123	6.00	0.825	
Total BTX	<0.300	0.300	09/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	09/13/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	189	94.6	200	2.42	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	194	97.1	200	0.268	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 72.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 35 @ 6' (H245540-02)

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	09/14/2024	ND	2.21	111	2.00	1.80		
Toluene*	<0.050	0.050	09/14/2024	ND	2.27	113	2.00	0.101		
Ethylbenzene*	<0.050	0.050	09/14/2024	ND	2.44	122	2.00	0.634		
Total Xylenes*	<0.150	0.150	09/14/2024	ND	7.39	123	6.00	0.825		
Total BTEX	<0.300	0.300	09/14/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	960	16.0	09/13/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	189	94.6	200	2.42	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	194	97.1	200	0.268	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 61.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.9 % 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: 09/12/2024
 Reported: 09/17/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 36 @ 4' (H245540-03)

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	09/14/2024	ND	2.21	111	2.00	1.80		
Toluene*	<0.050	0.050	09/14/2024	ND	2.27	113	2.00	0.101		
Ethylbenzene*	<0.050	0.050	09/14/2024	ND	2.44	122	2.00	0.634		
Total Xylenes*	<0.150	0.150	09/14/2024	ND	7.39	123	6.00	0.825		
Total BTEX	<0.300	0.300	09/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	09/13/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	189	94.6	200	2.42	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	194	97.1	200	0.268	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 71.5 % 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: 09/12/2024
 Reported: 09/17/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 37 @ 6' (H245540-04)

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	09/14/2024	ND	2.21	111	2.00	1.80	
Toluene*	<0.050	0.050	09/14/2024	ND	2.27	113	2.00	0.101	
Ethylbenzene*	<0.050	0.050	09/14/2024	ND	2.44	122	2.00	0.634	
Total Xylenes*	<0.150	0.150	09/14/2024	ND	7.39	123	6.00	0.825	
Total BTEX	<0.300	0.300	09/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	09/13/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	189	94.6	200	2.42	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	194	97.1	200	0.268	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 73.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 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: 09/12/2024
 Reported: 09/17/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 38 @ 5' (H245540-05)

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	09/14/2024	ND	2.21	111	2.00	1.80		
Toluene*	<0.050	0.050	09/14/2024	ND	2.27	113	2.00	0.101		
Ethylbenzene*	<0.050	0.050	09/14/2024	ND	2.44	122	2.00	0.634		
Total Xylenes*	<0.150	0.150	09/14/2024	ND	7.39	123	6.00	0.825		
Total BTEX	<0.300	0.300	09/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/13/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	189	94.6	200	2.42	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	194	97.1	200	0.268	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 70.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 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: 09/12/2024
 Reported: 09/17/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 39 @ 5' (H245540-06)

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	09/14/2024	ND	2.21	111	2.00	1.80		
Toluene*	<0.050	0.050	09/14/2024	ND	2.27	113	2.00	0.101		
Ethylbenzene*	<0.050	0.050	09/14/2024	ND	2.44	122	2.00	0.634		
Total Xylenes*	<0.150	0.150	09/14/2024	ND	7.39	123	6.00	0.825		
Total BTEX	<0.300	0.300	09/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	64.0	16.0	09/13/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	189	94.6	200	2.42	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	194	97.1	200	0.268	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 75.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 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: 09/12/2024
 Reported: 09/17/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 40 @ 5' (H245540-07)

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	09/14/2024	ND	2.21	111	2.00	1.80	
Toluene*	<0.050	0.050	09/14/2024	ND	2.27	113	2.00	0.101	
Ethylbenzene*	<0.050	0.050	09/14/2024	ND	2.44	122	2.00	0.634	
Total Xylenes*	<0.150	0.150	09/14/2024	ND	7.39	123	6.00	0.825	
Total BTEX	<0.300	0.300	09/14/2024	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	48.0	16.0	09/13/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	189	94.6	200	2.42	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	194	97.1	200	0.268	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 68.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

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Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 41 @ 5' (H245540-08)

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	09/14/2024	ND	2.21	111	2.00	1.80	
Toluene*	<0.050	0.050	09/14/2024	ND	2.27	113	2.00	0.101	
Ethylbenzene*	<0.050	0.050	09/14/2024	ND	2.44	122	2.00	0.634	
Total Xylenes*	<0.150	0.150	09/14/2024	ND	7.39	123	6.00	0.825	
Total BTEX	<0.300	0.300	09/14/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/13/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	189	94.6	200	2.42	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	194	97.1	200	0.268	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 63.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.3 % 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: 09/12/2024
 Reported: 09/17/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 42 @ 3' (H245540-09)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2024	ND	2.21	111	2.00	1.80	
Toluene*	<0.050	0.050	09/14/2024	ND	2.27	113	2.00	0.101	
Ethylbenzene*	<0.050	0.050	09/14/2024	ND	2.44	122	2.00	0.634	
Total Xylenes*	<0.150	0.150	09/14/2024	ND	7.39	123	6.00	0.825	
Total BTX	<0.300	0.300	09/14/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	09/13/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	189	94.6	200	2.42	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	194	97.1	200	0.268	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 71.8 % 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: 09/12/2024
 Reported: 09/17/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 43 @ 5' (H245540-10)

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	09/14/2024	ND	2.21	111	2.00	1.80		
Toluene*	<0.050	0.050	09/14/2024	ND	2.27	113	2.00	0.101		
Ethylbenzene*	<0.050	0.050	09/14/2024	ND	2.44	122	2.00	0.634		
Total Xylenes*	<0.150	0.150	09/14/2024	ND	7.39	123	6.00	0.825		
Total BTEx	<0.300	0.300	09/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	64.0	16.0	09/16/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	189	94.6	200	2.42	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	194	97.1	200	0.268	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 68.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 3 (H245540-11)

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	09/14/2024	ND	2.21	111	2.00	1.80		
Toluene*	<0.050	0.050	09/14/2024	ND	2.27	113	2.00	0.101		
Ethylbenzene*	<0.050	0.050	09/14/2024	ND	2.44	122	2.00	0.634		
Total Xylenes*	<0.150	0.150	09/14/2024	ND	7.39	123	6.00	0.825		
Total BTEX	<0.300	0.300	09/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/16/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	189	94.6	200	2.42	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	194	97.1	200	0.268	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 62.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.0 % 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: 09/12/2024
 Reported: 09/17/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 4 (H245540-12)

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	09/14/2024	ND	2.21	111	2.00	1.80		
Toluene*	<0.050	0.050	09/14/2024	ND	2.27	113	2.00	0.101		
Ethylbenzene*	<0.050	0.050	09/14/2024	ND	2.44	122	2.00	0.634		
Total Xylenes*	<0.150	0.150	09/14/2024	ND	7.39	123	6.00	0.825		
Total BTEX	<0.300	0.300	09/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	64.0	16.0	09/16/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	189	94.6	200	2.42	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	194	97.1	200	0.268	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 74.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 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: 09/12/2024
 Reported: 09/17/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 3 (H245540-13)

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	09/14/2024	ND	2.21	111	2.00	1.80		
Toluene*	<0.050	0.050	09/14/2024	ND	2.27	113	2.00	0.101		
Ethylbenzene*	<0.050	0.050	09/14/2024	ND	2.44	122	2.00	0.634		
Total Xylenes*	<0.150	0.150	09/14/2024	ND	7.39	123	6.00	0.825		
Total BTEX	<0.300	0.300	09/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	09/16/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	189	94.6	200	2.42	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	194	97.1	200	0.268	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 67.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 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: 09/12/2024
 Reported: 09/17/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 4 (H245540-14)

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	09/14/2024	ND	2.21	111	2.00	1.80		
Toluene*	<0.050	0.050	09/14/2024	ND	2.27	113	2.00	0.101		
Ethylbenzene*	<0.050	0.050	09/14/2024	ND	2.44	122	2.00	0.634		
Total Xylenes*	<0.150	0.150	09/14/2024	ND	7.39	123	6.00	0.825		
Total BTEX	<0.300	0.300	09/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	09/16/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	189	94.6	200	2.42	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	194	97.1	200	0.268	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 72.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 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.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

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

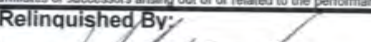


Page 1 of 2

Page 17 of 18

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 #: 20984 Project Owner: Mewbourne		City:																														
Project Name: Pavo Frio Flow Line		State: Zip:																														
Project Location: 32.744072, -104.115361		Phone #:																														
Sampler Name: Patrick Muniez		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																	
1	FL 34 @ 7'	C 1			X						X			9/12/24		X	X	X														
2	FL 35 @ 6'	C 1			X						X			9/12/24		X	X	X														
3	FL 36 @ 4'	C 1			X						X			9/12/24		X	X	X														
4	FL 37 @ 6'	C 1			X						X			9/12/24		X	X	X														
5	FL 38 @ 5'	C 1			X						X			9/12/24		X	X	X														
6	FL 39 @ 5'	C 1			X						X			9/12/24		X	X	X														
7	FL 40 @ 5'	C 1			X						X			9/12/24		X	X	X														
8	FL 41 @ 5'	C 1			X						X			9/12/24		X	X	X														
9	FL 42 @ 3'	C 1			X						X			9/12/24		X	X	X														
10	FL 43 @ 5'	C 1			X						X			9/12/24		X	X	X														

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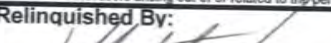


Relinquished By: 		Date: 9-12-24		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: 1444				All Results are emailed. Please provide Email address: pm@etechnv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:					
Delivered By: (Circle One)		Observed Temp. °C = 4.32		Sample Condition		CHECKED BY: (Initials) 	
Sampler - UPS - Bus - Other:		Corrected Temp. °C = 4.92		Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
						Bacteria (only) Sample Condition	
						Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C	
						Corrected Temp. °C	

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Relinquished By: 		Date: 9-12-24		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 7:44		Time: 7:44		All Results are emailed. Please provide Email address: pm@etechenv.com			
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:					
Delivered By: (Circle One)		Observed Temp. °C -4.32		Sample Condition		CHECKED BY: (Initials) 	
Sampler - UPS - Bus - Other:		Corrected Temp. °C -4.92		Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
						Bacteria (only) Sample Condition	
						Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C	
						Corrected Temp. °C	



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

September 18, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PAVO FRIO FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 09/13/24 14:35.

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 fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/13/2024
 Reported: 09/18/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 44 @ 6' (H245597-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2024	ND	2.02	101	2.00	1.15	
Toluene*	<0.050	0.050	09/16/2024	ND	1.94	96.9	2.00	1.11	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.99	99.4	2.00	1.36	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.92	98.7	6.00	1.41	
Total BTX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/17/2024	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	09/16/2024	ND	209	105	200	0.306	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	187	93.5	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 76.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 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: 09/13/2024
 Reported: 09/18/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 45 @ 6' (H245597-02)

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	09/16/2024	ND	2.02	101	2.00	1.15		
Toluene*	<0.050	0.050	09/16/2024	ND	1.94	96.9	2.00	1.11		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.99	99.4	2.00	1.36		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.92	98.7	6.00	1.41		
Total BTEx	<0.300	0.300	09/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 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	176	16.0	09/17/2024	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	09/16/2024	ND	209	105	200	0.306	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	187	93.5	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 76.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 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: 09/13/2024
 Reported: 09/18/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 46 @ 5' (H245597-03)

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	09/16/2024	ND	2.02	101	2.00	1.15		
Toluene*	<0.050	0.050	09/16/2024	ND	1.94	96.9	2.00	1.11		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.99	99.4	2.00	1.36		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.92	98.7	6.00	1.41		
Total BTEX	<0.300	0.300	09/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/17/2024	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	09/16/2024	ND	209	105	200	0.306	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	187	93.5	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 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: 09/13/2024
 Reported: 09/18/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 47 @ 5' (H245597-04)

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	09/16/2024	ND	2.02	101	2.00	1.15		
Toluene*	<0.050	0.050	09/16/2024	ND	1.94	96.9	2.00	1.11		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.99	99.4	2.00	1.36		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.92	98.7	6.00	1.41		
Total BTEX	<0.300	0.300	09/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 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	09/17/2024	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	09/16/2024	ND	209	105	200	0.306	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	187	93.5	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 74.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 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: 09/13/2024
 Reported: 09/18/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 48 @ 5' (H245597-05)

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	09/16/2024	ND	2.02	101	2.00	1.15		
Toluene*	<0.050	0.050	09/16/2024	ND	1.94	96.9	2.00	1.11		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.99	99.4	2.00	1.36		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.92	98.7	6.00	1.41		
Total BTEX	<0.300	0.300	09/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 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	16.0	16.0	09/17/2024	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	09/17/2024	ND	209	105	200	0.306	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	187	93.5	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 68.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 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: 09/13/2024
 Reported: 09/18/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 49 @ 4' (H245597-06)

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	09/16/2024	ND	2.02	101	2.00	1.15		
Toluene*	<0.050	0.050	09/16/2024	ND	1.94	96.9	2.00	1.11		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.99	99.4	2.00	1.36		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.92	98.7	6.00	1.41		
Total BTEX	<0.300	0.300	09/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 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	09/17/2024	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	09/17/2024	ND	209	105	200	0.306	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	187	93.5	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 68.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.0 % 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: 09/13/2024
 Reported: 09/18/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 50 @ 6' (H245597-07)

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	09/16/2024	ND	2.02	101	2.00	1.15		
Toluene*	<0.050	0.050	09/16/2024	ND	1.94	96.9	2.00	1.11		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.99	99.4	2.00	1.36		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.92	98.7	6.00	1.41		
Total BTEX	<0.300	0.300	09/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/17/2024	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	09/17/2024	ND	209	105	200	0.306	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	187	93.5	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 66.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.2 % 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: 09/13/2024
 Reported: 09/18/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 51 @ 5' (H245597-08)

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	09/16/2024	ND	2.02	101	2.00	1.15		
Toluene*	<0.050	0.050	09/16/2024	ND	1.94	96.9	2.00	1.11		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.99	99.4	2.00	1.36		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.92	98.7	6.00	1.41		
Total BTEX	<0.300	0.300	09/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 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	09/17/2024	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	09/17/2024	ND	209	105	200	0.306	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	187	93.5	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 69.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.6 % 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: 09/13/2024
 Reported: 09/18/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 52 @ 6' (H245597-09)

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	09/16/2024	ND	2.02	101	2.00	1.15		
Toluene*	<0.050	0.050	09/16/2024	ND	1.94	96.9	2.00	1.11		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.99	99.4	2.00	1.36		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.92	98.7	6.00	1.41		
Total BTEX	<0.300	0.300	09/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	09/17/2024	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	09/17/2024	ND	209	105	200	0.306	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	187	93.5	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 77.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 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: 09/13/2024
 Reported: 09/18/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 53 @ 6' (H245597-10)

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	09/16/2024	ND	2.02	101	2.00	1.15		
Toluene*	<0.050	0.050	09/16/2024	ND	1.94	96.9	2.00	1.11		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.99	99.4	2.00	1.36		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.92	98.7	6.00	1.41		
Total BTEX	<0.300	0.300	09/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/17/2024	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	09/17/2024	ND	209	105	200	0.306	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	187	93.5	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 74.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Analytical Results For:

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

Received: 09/13/2024
 Reported: 09/18/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 54 @ 6' (H245597-11)

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	09/16/2024	ND	2.02	101	2.00	1.15	
Toluene*	<0.050	0.050	09/16/2024	ND	1.94	96.9	2.00	1.11	
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.99	99.4	2.00	1.36	
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.92	98.7	6.00	1.41	
Total BTEX	<0.300	0.300	09/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/17/2024	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	09/16/2024	ND	220	110	200	0.902	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	210	105	200	0.606	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 81.5 % 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: 09/13/2024
 Reported: 09/18/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 55 @ 6' (H245597-12)

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	09/16/2024	ND	2.02	101	2.00	1.15		
Toluene*	<0.050	0.050	09/16/2024	ND	1.94	96.9	2.00	1.11		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.99	99.4	2.00	1.36		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.92	98.7	6.00	1.41		
Total BTEX	<0.300	0.300	09/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/17/2024	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	09/16/2024	ND	220	110	200	0.902	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	210	105	200	0.606	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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: 09/13/2024
 Reported: 09/18/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 56 @ 6' (H245597-13)

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	09/16/2024	ND	2.02	101	2.00	1.15		
Toluene*	<0.050	0.050	09/16/2024	ND	1.94	96.9	2.00	1.11		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	1.99	99.4	2.00	1.36		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	5.92	98.7	6.00	1.41		
Total BTEX	<0.300	0.300	09/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/17/2024	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	09/16/2024	ND	220	110	200	0.902	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	210	105	200	0.606	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 87.4 % 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: 09/13/2024
 Reported: 09/18/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 57 @ 3' (H245597-14)

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	09/17/2024	ND	2.13	106	2.00	0.815	
Toluene*	<0.050	0.050	09/17/2024	ND	2.02	101	2.00	0.761	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.03	101	2.00	1.91	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.10	102	6.00	2.52	
Total BTEX	<0.300	0.300	09/17/2024	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	16.0	16.0	09/17/2024	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	09/16/2024	ND	220	110	200	0.902	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	210	105	200	0.606	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 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: 09/13/2024
 Reported: 09/18/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 58 @ 4' (H245597-15)

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	09/17/2024	ND	2.13	106	2.00	0.815		
Toluene*	<0.050	0.050	09/17/2024	ND	2.02	101	2.00	0.761		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.03	101	2.00	1.91		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.10	102	6.00	2.52		
Total BTEX	<0.300	0.300	09/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/17/2024	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	09/16/2024	ND	220	110	200	0.902	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	210	105	200	0.606	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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: 09/13/2024
 Reported: 09/18/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 59 @ 4' (H245597-16)

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	09/17/2024	ND	2.13	106	2.00	0.815	
Toluene*	<0.050	0.050	09/17/2024	ND	2.02	101	2.00	0.761	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.03	101	2.00	1.91	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.10	102	6.00	2.52	
Total BTEX	<0.300	0.300	09/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/17/2024	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	09/16/2024	ND	220	110	200	0.902	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	210	105	200	0.606	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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: 09/13/2024
 Reported: 09/18/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 5 (H245597-17)

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	09/17/2024	ND	2.13	106	2.00	0.815		
Toluene*	<0.050	0.050	09/17/2024	ND	2.02	101	2.00	0.761		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.03	101	2.00	1.91		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.10	102	6.00	2.52		
Total BTEX	<0.300	0.300	09/17/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/17/2024	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	09/16/2024	ND	220	110	200	0.902	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	210	105	200	0.606	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 77.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/13/2024
 Reported: 09/18/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 6 (H245597-18)

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	09/17/2024	ND	2.13	106	2.00	0.815		
Toluene*	<0.050	0.050	09/17/2024	ND	2.02	101	2.00	0.761		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.03	101	2.00	1.91		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.10	102	6.00	2.52		
Total BTEX	<0.300	0.300	09/17/2024	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	48.0	16.0	09/17/2024	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	09/16/2024	ND	220	110	200	0.902	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	210	105	200	0.606	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 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: 09/13/2024
 Reported: 09/18/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 7 (H245597-19)

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	09/17/2024	ND	2.13	106	2.00	0.815	
Toluene*	<0.050	0.050	09/17/2024	ND	2.02	101	2.00	0.761	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.03	101	2.00	1.91	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.10	102	6.00	2.52	
Total BTEX	<0.300	0.300	09/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	09/17/2024	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	09/16/2024	ND	220	110	200	0.902	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	210	105	200	0.606	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 88.8 % 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: 09/13/2024
 Reported: 09/18/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 5 (H245597-20)

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	09/17/2024	ND	2.13	106	2.00	0.815	
Toluene*	<0.050	0.050	09/17/2024	ND	2.02	101	2.00	0.761	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.03	101	2.00	1.91	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.10	102	6.00	2.52	
Total BTEX	<0.300	0.300	09/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/17/2024	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	09/16/2024	ND	220	110	200	0.902	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	210	105	200	0.606	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 81.6 % 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: 09/13/2024
 Reported: 09/18/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 6 (H245597-21)

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	09/17/2024	ND	2.13	106	2.00	0.815	
Toluene*	<0.050	0.050	09/17/2024	ND	2.02	101	2.00	0.761	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.03	101	2.00	1.91	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.10	102	6.00	2.52	
Total BTEX	<0.300	0.300	09/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/17/2024	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	09/16/2024	ND	220	110	200	0.902	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	210	105	200	0.606	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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: 09/13/2024
 Reported: 09/18/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 7 (H245597-22)

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	09/17/2024	ND	2.13	106	2.00	0.815	
Toluene*	<0.050	0.050	09/17/2024	ND	2.02	101	2.00	0.761	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.03	101	2.00	1.91	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.10	102	6.00	2.52	
Total BTEX	<0.300	0.300	09/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/17/2024	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	09/16/2024	ND	220	110	200	0.902	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	210	105	200	0.606	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 89.1 % 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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

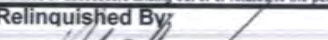
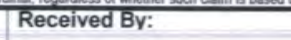
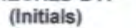
Celey D. Keene, Lab Director/Quality Manager

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Page 1 of 3

[illegible]

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Relinquished By: 		Date: 9/3/24		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
Time: 1435		Time:		All Results are emailed. Please provide Email address: pm@etechenv.com			
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:					
Delivered By: (Circle One)		Observed Temp. °C: -0.8°C		Sample Condition: Cool <input type="checkbox"/> Intact <input type="checkbox"/>		CHECKED BY: (Initials): 	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: -1.4°C		Cool <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	
						Bacteria (only) Sample Condition: Cool <input type="checkbox"/> Intact <input type="checkbox"/>	
						Thermometer ID #140 Correction Factor -0.6°C	
						Cool <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
						Observed Temp. °C: Corrected Temp. °C:	



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 2 of 3

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>											
Address: 2617 West Marland				Company: Mewbourne															
City: Hobbs		State: NM Zip: 88240		Attn: Connor Walker															
Phone #: (575) 264-9884		Fax #:		Address:															
Project #: 20984		Project Owner: Mewbourne		City:															
Project Name: Pavo Frio Flow Line				State: Zip:															
Project Location: 32.744072, -104.115361				Phone #:															
Sampler Name: Patrick Muniez				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					
H205507				C 1		X		X		9/13/24		X		X					
11		FL 54 @ 6'		C 1		X		X		9/13/24		X		X					
12		FL 55 @ 6'		C 1		X		X		9/13/24		X		X					
13		FL 56 @ 6'		C 1		X		X		9/13/24		X		X					
14		FL 57 @ 3'		C 1		X		X		9/13/24		X		X					
15		FL 58 @ 4'		C 1		X		X		9/13/24		X		X					
16		FL 59 @ 4'		C 1		X		X		9/13/24		X		X					
17		EW 5		C 1		X		X		9/13/24		X		X					
18		EW 6		C 1		X		X		9/13/24		X		X					
19		EW 7		C 1		X		X		9/13/24		X		X					
20		WW 5		C 1		X		X		9/13/24		X		X					

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Relinquished By:		Date: 9/13/24		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 1435		Time:		All Results are emailed. Please provide Email address: pm@etechenv.com			
Relinquished By:		Date:		Received By:		REMARKS:	
Time:							
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
		-0.8°C		-1.4°C		Thermometer ID #140	
						Correction Factor -0.6°C	
						Bacteria (only) Sample Condition	
						Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
						Observed Temp. °C	
						Corrected Temp. °C	

FORM-006 R 3.5 08/05/24

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
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Page 3 of 3

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 West Marland				Company: Mewbourne																							
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																							
Phone #: (575) 264-9884 Fax #:				Address:																							
Project #: 20984 Project Owner: Mewbourne				City:																							
Project Name: Pavo Frio Flow Line				State: Zip:																							
Project Location: 32.744072, -104.115361				Phone #:																							
Sampler Name: Patrick Muniez				Fax #:																							
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(GRAB OR C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME													
W25597	WW 6	C	1			X				X			9/13/24		X	X	X										
22	WW 7	C	1			X				X			9/13/24		X	X	X										

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Relinquished By:		Date: 9/13/24		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 1435		Time: 1435		All Results are emailed. Please provide Email address: pm@etechenv.com			
Relinquished By:		Date:		Received By:		REMARKS:	
Time:							
Delivered By: (Circle One)		Observed Temp. °C: -0.8°C		Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: -1.4°C		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
						Thermometer ID #140 Correction Factor -0.6°C	
						Bacteria (only) Sample Condition: Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C:	

FORM-006 R 3.5 08/05/24

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

September 19, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PAVO FRIO FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 09/16/24 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, 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: 09/16/2024
 Reported: 09/19/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 60 @ 5' (H245621-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.04	102	2.00	2.40	
Toluene*	<0.050	0.050	09/17/2024	ND	1.91	95.7	2.00	2.59	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	1.93	96.4	2.00	2.47	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	5.72	95.4	6.00	2.68	
Total BTX	<0.300	0.300	09/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/17/2024	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	09/17/2024	ND	204	102	200	0.238	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	202	101	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 77.0 % 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: 09/16/2024
 Reported: 09/19/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 61 @ 4' (H245621-02)

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	09/17/2024	ND	2.04	102	2.00	2.40		
Toluene*	<0.050	0.050	09/17/2024	ND	1.91	95.7	2.00	2.59		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	1.93	96.4	2.00	2.47		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	5.72	95.4	6.00	2.68		
Total BTEX	<0.300	0.300	09/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 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	09/17/2024	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	09/17/2024	ND	204	102	200	0.238	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	202	101	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 73.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.4 % 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: 09/16/2024
 Reported: 09/19/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 62 @ 3' (H245621-03)

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	09/17/2024	ND	2.04	102	2.00	2.40		
Toluene*	<0.050	0.050	09/17/2024	ND	1.91	95.7	2.00	2.59		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	1.93	96.4	2.00	2.47		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	5.72	95.4	6.00	2.68		
Total BTEX	<0.300	0.300	09/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/17/2024	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	09/17/2024	ND	204	102	200	0.238	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	202	101	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 60.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.2 % 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: 09/16/2024
 Reported: 09/19/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 63 @ 3' (H245621-04)

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	09/17/2024	ND	2.04	102	2.00	2.40		
Toluene*	<0.050	0.050	09/17/2024	ND	1.91	95.7	2.00	2.59		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	1.93	96.4	2.00	2.47		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	5.72	95.4	6.00	2.68		
Total BTEX	<0.300	0.300	09/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/17/2024	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	09/17/2024	ND	204	102	200	0.238	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	202	101	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 56.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 59.8 % 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: 09/16/2024
 Reported: 09/19/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 64 @ 4' (H245621-05)

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	09/17/2024	ND	2.04	102	2.00	2.40		
Toluene*	<0.050	0.050	09/17/2024	ND	1.91	95.7	2.00	2.59		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	1.93	96.4	2.00	2.47		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	5.72	95.4	6.00	2.68		
Total BTEx	<0.300	0.300	09/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 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	09/17/2024	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	09/17/2024	ND	204	102	200	0.238	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	202	101	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 70.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.1 % 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: 09/16/2024
 Reported: 09/19/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 65 @ 4' (H245621-06)

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	09/17/2024	ND	2.04	102	2.00	2.40		
Toluene*	<0.050	0.050	09/17/2024	ND	1.91	95.7	2.00	2.59		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	1.93	96.4	2.00	2.47		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	5.72	95.4	6.00	2.68		
Total BTEx	<0.300	0.300	09/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/17/2024	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	09/17/2024	ND	204	102	200	0.238	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	202	101	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 66.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.3 % 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: 09/16/2024
 Reported: 09/19/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 66 @ 4' (H245621-07)

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	09/17/2024	ND	2.04	102	2.00	2.40		
Toluene*	<0.050	0.050	09/17/2024	ND	1.91	95.7	2.00	2.59		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	1.93	96.4	2.00	2.47		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	5.72	95.4	6.00	2.68		
Total BTEX	<0.300	0.300	09/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/17/2024	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	09/17/2024	ND	204	102	200	0.238	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	202	101	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.2 % 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: 09/16/2024
 Reported: 09/19/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 67 @ 4' (H245621-08)

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	09/17/2024	ND	2.04	102	2.00	2.40	
Toluene*	<0.050	0.050	09/17/2024	ND	1.91	95.7	2.00	2.59	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	1.93	96.4	2.00	2.47	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	5.72	95.4	6.00	2.68	
Total BTEX	<0.300	0.300	09/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 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	09/17/2024	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	09/17/2024	ND	204	102	200	0.238	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	202	101	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 73.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.1 % 49.1-148

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Analytical Results For:

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

Received: 09/16/2024
 Reported: 09/19/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 68 @ 4' (H245621-09)

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	09/17/2024	ND	2.04	102	2.00	2.40		
Toluene*	<0.050	0.050	09/17/2024	ND	1.91	95.7	2.00	2.59		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	1.93	96.4	2.00	2.47		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	5.72	95.4	6.00	2.68		
Total BTEX	<0.300	0.300	09/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/17/2024	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	09/17/2024	ND	204	102	200	0.238	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	202	101	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 72.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.3 % 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: 09/16/2024
 Reported: 09/19/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 69 @ 4' (H245621-10)

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	09/17/2024	ND	2.04	102	2.00	2.40	
Toluene*	<0.050	0.050	09/17/2024	ND	1.91	95.7	2.00	2.59	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	1.93	96.4	2.00	2.47	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	5.72	95.4	6.00	2.68	
Total BTEX	<0.300	0.300	09/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/17/2024	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	09/17/2024	ND	204	102	200	0.238	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	202	101	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 70.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.7 % 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: 09/16/2024
 Reported: 09/19/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 70 @ 3' (H245621-11)

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	09/17/2024	ND	2.04	102	2.00	2.40		
Toluene*	<0.050	0.050	09/17/2024	ND	1.91	95.7	2.00	2.59		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	1.93	96.4	2.00	2.47		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	5.72	95.4	6.00	2.68		
Total BTEX	<0.300	0.300	09/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/17/2024	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	09/17/2024	ND	204	102	200	0.238	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	202	101	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 71.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.9 % 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: 09/16/2024
 Reported: 09/19/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 71 @ 3' (H245621-12)

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	09/17/2024	ND	2.04	102	2.00	2.40		
Toluene*	<0.050	0.050	09/17/2024	ND	1.91	95.7	2.00	2.59		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	1.93	96.4	2.00	2.47		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	5.72	95.4	6.00	2.68		
Total BTEX	<0.300	0.300	09/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/17/2024	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	09/17/2024	ND	204	102	200	0.238	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	202	101	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 66.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.4 % 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: 09/16/2024
 Reported: 09/19/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 72 @ 3' (H245621-13)

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	09/17/2024	ND	2.04	102	2.00	2.40		
Toluene*	<0.050	0.050	09/17/2024	ND	1.91	95.7	2.00	2.59		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	1.93	96.4	2.00	2.47		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	5.72	95.4	6.00	2.68		
Total BTEX	<0.300	0.300	09/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/18/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2024	ND	204	102	200	0.238	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	202	101	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 68.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.5 % 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: 09/16/2024
 Reported: 09/19/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 73 @ 4' (H245621-14)

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	09/17/2024	ND	2.04	102	2.00	2.40		
Toluene*	<0.050	0.050	09/17/2024	ND	1.91	95.7	2.00	2.59		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	1.93	96.4	2.00	2.47		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	5.72	95.4	6.00	2.68		
Total BTEX	<0.300	0.300	09/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/18/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2024	ND	204	102	200	0.238	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	202	101	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 61.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.5 % 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: 09/16/2024
 Reported: 09/19/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 8 (H245621-15)

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	09/17/2024	ND	2.04	102	2.00	2.40		
Toluene*	<0.050	0.050	09/17/2024	ND	1.91	95.7	2.00	2.59		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	1.93	96.4	2.00	2.47		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	5.72	95.4	6.00	2.68		
Total BTEX	<0.300	0.300	09/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/18/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2024	ND	202	101	200	0.818	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	207	103	200	0.100	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.2 % 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: 09/16/2024
 Reported: 09/19/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 8 (H245621-16)

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	09/17/2024	ND	2.04	102	2.00	2.40	
Toluene*	<0.050	0.050	09/17/2024	ND	1.91	95.7	2.00	2.59	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	1.93	96.4	2.00	2.47	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	5.72	95.4	6.00	2.68	
Total BTEX	<0.300	0.300	09/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/18/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2024	ND	202	101	200	0.818	
DRO >C10-C28*	<10.0	10.0	09/17/2024	ND	207	103	200	0.100	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.3 % 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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A handwritten signature in black ink, appearing to read "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

Page 1 of 2

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:		City:																	
Project #: 20984		Project Owner: Mewbourne		State:		Zip:																	
Project Name: Pavo Frio Flow Line				Phone #:																			
Project Location: 32.744072, -104.115361				Fax #:																			
Sampler Name: Patrick Muniez																							
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									
1245021																							
1	FL 60 @ 5'	C	1			X					X		9/16/24		X	X	X						
2	FL 61 @ 4'	C	1			X					X		9/16/24		X	X	X						
3	FL 62 @ 3'	C	1			X					X		9/16/24		X	X	X						
4	FL 63 @ 3'	C	1			X					X		9/16/24		X	X	X						
5	FL 64 @ 4'	C	1			X					X		9/16/24		X	X	X						
6	FL 65 @ 4'	C	1			X					X		9/16/24		X	X	X						
7	FL 66 @ 4'	C	1			X					X		9/16/24		X	X	X						
8	FL 67 @ 4'	C	1			X					X		9/16/24		X	X	X						
9	FL 68 @ 4'	C	1			X					X		9/16/24		X	X	X						
10	FL 69 @ 4'	C	1			X					X		9/16/24		X	X	X						

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Relinquished By:		Date: 9/16/24		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: 14:46				All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:					
Delivered By: (Circle One)		Observed Temp. °C 35.0		Sample Condition		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C 29.0		Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C	
				CHECKED BY: (Initials) AD		Thermometer ID #140 Correction Factor -0.6°C	
						Corrected Temp. °C	



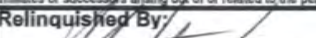
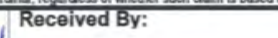

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 2 of 2

[illegible]

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Relinquished By: 		Date: 01/16/24		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Add'l Phone #:	
		Time: 1446				All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:					
Delivered By: (Circle One)		Observed Temp. °C 3.52		Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Corrected Temp. °C 2.92		Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input 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 <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C	



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

September 20, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PAVO FRIO FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 09/17/24 14:43.

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, appearing to read "Mike Snyder", is written in a cursive style.

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: 09/17/2024
 Reported: 09/20/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 74 1' (H245646-01)

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	09/18/2024	ND	2.21	111	2.00	4.98	
Toluene*	<0.050	0.050	09/18/2024	ND	2.29	115	2.00	4.18	
Ethylbenzene*	<0.050	0.050	09/18/2024	ND	2.32	116	2.00	2.80	
Total Xylenes*	<0.150	0.150	09/18/2024	ND	6.97	116	6.00	2.34	
Total BTEX	<0.300	0.300	09/18/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/18/2024	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	187	93.6	200	0.186	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	198	99.2	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 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: 09/17/2024
 Reported: 09/20/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 75 1' (H245646-02)

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	09/19/2024	ND	2.32	116	2.00	1.55		
Toluene*	<0.050	0.050	09/19/2024	ND	2.17	108	2.00	0.0965		
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.19	110	2.00	1.44		
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.59	110	6.00	1.22		
Total BTEX	<0.300	0.300	09/19/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	09/18/2024	ND	416	104	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	187	93.6	200	0.186	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	198	99.2	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					

Surrogate: 1-Chlorooctane 75.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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



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

Analytical Results For:

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

Received: 09/17/2024
 Reported: 09/20/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 76 1' (H245646-03)

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	09/19/2024	ND	2.32	116	2.00	1.55		
Toluene*	<0.050	0.050	09/19/2024	ND	2.17	108	2.00	0.0965		
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.19	110	2.00	1.44		
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.59	110	6.00	1.22		
Total BTEx	<0.300	0.300	09/19/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/18/2024	ND	416	104	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	187	93.6	200	0.186	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	198	99.2	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					

Surrogate: 1-Chlorooctane 74.0 % 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



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

Analytical Results For:

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

Received: 09/17/2024
 Reported: 09/20/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 77 2' (H245646-04)

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	09/19/2024	ND	2.32	116	2.00	1.55	
Toluene*	<0.050	0.050	09/19/2024	ND	2.17	108	2.00	0.0965	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.19	110	2.00	1.44	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.59	110	6.00	1.22	
Total BTEX	<0.300	0.300	09/19/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/18/2024	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	187	93.6	200	0.186	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	198	99.2	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					

Surrogate: 1-Chlorooctane 72.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 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: 09/17/2024
 Reported: 09/20/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 78 1' (H245646-05)

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	09/19/2024	ND	2.32	116	2.00	1.55		
Toluene*	<0.050	0.050	09/19/2024	ND	2.17	108	2.00	0.0965		
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.19	110	2.00	1.44		
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.59	110	6.00	1.22		
Total BTEX	<0.300	0.300	09/19/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	09/18/2024	ND	416	104	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	187	93.6	200	0.186	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	198	99.2	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					

Surrogate: 1-Chlorooctane 73.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 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: 09/17/2024
 Reported: 09/20/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 79 2' (H245646-06)

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	09/19/2024	ND	2.10	105	2.00	2.76		
Toluene*	<0.050	0.050	09/19/2024	ND	1.99	99.3	2.00	2.00		
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.02	101	2.00	1.80		
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.01	100	6.00	1.70		
Total BTEX	<0.300	0.300	09/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1730	16.0	09/18/2024	ND	416	104	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	187	93.6	200	0.186	
DRO >C10-C28*	23.8	10.0	09/18/2024	ND	198	99.2	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					

Surrogate: 1-Chlorooctane 76.6 % 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: 09/17/2024
 Reported: 09/20/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 80 2' (H245646-07)

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	09/19/2024	ND	2.10	105	2.00	2.76		
Toluene*	<0.050	0.050	09/19/2024	ND	1.99	99.3	2.00	2.00		
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.02	101	2.00	1.80		
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.01	100	6.00	1.70		
Total BTEX	<0.300	0.300	09/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/18/2024	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	187	93.6	200	0.186	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	198	99.2	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					

Surrogate: 1-Chlorooctane 77.1 % 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: 09/17/2024
 Reported: 09/20/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 81 1' (H245646-08)

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	09/19/2024	ND	2.10	105	2.00	2.76		
Toluene*	<0.050	0.050	09/19/2024	ND	1.99	99.3	2.00	2.00		
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.02	101	2.00	1.80		
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.01	100	6.00	1.70		
Total BTEX	<0.300	0.300	09/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	09/18/2024	ND	416	104	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	187	93.6	200	0.186	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	198	99.2	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					

Surrogate: 1-Chlorooctane 64.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 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: 09/17/2024
 Reported: 09/20/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 82 2' (H245646-09)

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	09/19/2024	ND	2.10	105	2.00	2.76		
Toluene*	<0.050	0.050	09/19/2024	ND	1.99	99.3	2.00	2.00		
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.02	101	2.00	1.80		
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.01	100	6.00	1.70		
Total BTEX	<0.300	0.300	09/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/18/2024	ND	416	104	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	187	93.6	200	0.186	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	198	99.2	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					

Surrogate: 1-Chlorooctane 74.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 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: 09/17/2024
 Reported: 09/20/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 83 2' (H245646-10)

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	09/19/2024	ND	2.10	105	2.00	2.76		
Toluene*	<0.050	0.050	09/19/2024	ND	1.99	99.3	2.00	2.00		
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.02	101	2.00	1.80		
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.01	100	6.00	1.70		
Total BTEX	<0.300	0.300	09/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/18/2024	ND	416	104	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	187	93.6	200	0.186	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	198	99.2	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					

Surrogate: 1-Chlorooctane 73.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 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: 09/17/2024
 Reported: 09/20/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 84 2' (H245646-11)

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	09/19/2024	ND	2.10	105	2.00	2.76		
Toluene*	<0.050	0.050	09/19/2024	ND	1.99	99.3	2.00	2.00		
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.02	101	2.00	1.80		
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.01	100	6.00	1.70		
Total BTEx	<0.300	0.300	09/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	09/18/2024	ND	416	104	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	187	93.6	200	0.186	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	198	99.2	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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*=Accredited Analyte

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



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

Analytical Results For:

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

Received: 09/17/2024
 Reported: 09/20/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 85 3' (H245646-12)

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	09/19/2024	ND	2.10	105	2.00	2.76		
Toluene*	<0.050	0.050	09/19/2024	ND	1.99	99.3	2.00	2.00		
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.02	101	2.00	1.80		
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.01	100	6.00	1.70		
Total BTEX	<0.300	0.300	09/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/18/2024	ND	416	104	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	187	93.6	200	0.186	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	198	99.2	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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*=Accredited Analyte

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



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

Analytical Results For:

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

Received: 09/17/2024
 Reported: 09/20/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 86 3' (H245646-13)

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	09/19/2024	ND	2.10	105	2.00	2.76		
Toluene*	<0.050	0.050	09/19/2024	ND	1.99	99.3	2.00	2.00		
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.02	101	2.00	1.80		
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.01	100	6.00	1.70		
Total BTEX	<0.300	0.300	09/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/18/2024	ND	416	104	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	187	93.6	200	0.186	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	198	99.2	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					

Surrogate: 1-Chlorooctane 74.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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*=Accredited Analyte

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



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

Analytical Results For:

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

Received: 09/17/2024
 Reported: 09/20/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 87 5' (H245646-14)

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	09/19/2024	ND	2.10	105	2.00	2.76		
Toluene*	<0.050	0.050	09/19/2024	ND	1.99	99.3	2.00	2.00		
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.02	101	2.00	1.80		
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.01	100	6.00	1.70		
Total BTEX	<0.300	0.300	09/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	09/18/2024	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	187	93.6	200	0.186	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	198	99.2	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					

Surrogate: 1-Chlorooctane 75.8 % 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: 09/17/2024
 Reported: 09/20/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 88 6' (H245646-15)

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	09/19/2024	ND	2.10	105	2.00	2.76		
Toluene*	<0.050	0.050	09/19/2024	ND	1.99	99.3	2.00	2.00		
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.02	101	2.00	1.80		
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.01	100	6.00	1.70		
Total BTEX	<0.300	0.300	09/19/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	09/18/2024	ND	416	104	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	187	93.6	200	0.186	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	198	99.2	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					

Surrogate: 1-Chlorooctane 71.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.8 % 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: 09/17/2024
 Reported: 09/20/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 1 (H245646-16)

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	09/19/2024	ND	2.10	105	2.00	2.76	
Toluene*	<0.050	0.050	09/19/2024	ND	1.99	99.3	2.00	2.00	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.02	101	2.00	1.80	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.01	100	6.00	1.70	
Total BTEX	<0.300	0.300	09/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/18/2024	ND	416	104	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	187	93.6	200	0.186	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	198	99.2	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					

Surrogate: 1-Chlorooctane 66.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

Cardinal Laboratories

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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

- 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

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A handwritten signature in black ink, appearing to read "Mike Snyder".

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 1 of 2

Page 19 of 20

Company Name: Etch Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 West Marland				Company: Mewbourne																							
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																							
Phone #: (575) 264-9884 Fax #:				Address:																							
Project #: 20984 Project Owner: Mewbourne				City:																							
Project Name: Pavo Frio Flow Line				State: Zip:																							
Project Location: 32.744072, -104.115361				Phone #:																							
Sampler Name: Patrick Muniez				Fax #:																							
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
1	FL 74 @ 1'	C	1			X				X			9/17/24		X	X	X										
2	FL 75 @ 1'	C	1			X				X			9/17/24		X	X	X										
3	FL 76 @ 1'	C	1			X				X			9/17/24		X	X	X										
4	FL 77 @ 2'	C	1			X				X			9/17/24		X	X	X										
5	FL 78 @ 1'	C	1			X				X			9/17/24		X	X	X										
6	FL 79 @ 2'	C	1			X				X			9/17/24		X	X	X										
7	FL 80 @ 2'	C	1			X				X			9/17/24		X	X	X										
8	FL 81 @ 1'	C	1			X				X			9/17/24		X	X	X										
9	FL 82 @ 2'	C	1			X				X			9/17/24		X	X	X										
10	FL 83 @ 2'	C	1			X				X			9/17/24		X	X	X										

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Relinquished By:	Date: 9-17-24	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
	Time: 1443		All Results are emailed. Please provide Email address: pm@etechenv.com
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		
Delivered By: (Circle One)	Observed Temp. °C -0.3°C	Sample Condition Cool Intact	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C -0.9°C	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
		CHECKED BY: (Initials) 882	Thermometer ID #140 Correction Factor -0.6°C
			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 2 of 2

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 West Marland				Company: Mewbourne																							
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																							
Phone #: (575) 264-9884 Fax #:				Address:																							
Project #: 20984 Project Owner: Mewbourne				City:																							
Project Name: Pavo Frio Flow Line				State: Zip:																							
Project Location: 32.744072, -104.115361				Phone #:																							
Sampler Name: Patrick Muniez				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													
11	FL 84 @ 2'	C	1			X				X			9/17/24		X	X	X										
12	FL 85 @ 3'	C	1			X				X			9/17/24		X	X	X										
13	FL 86 @ 3'	C	1			X				X			9/17/24		X	X	X										
14	FL 87 @ 5'	C	1			X				X			9/17/24		X	X	X										
15	FL 88 @ 6'	C	1			X				X			9/17/24		X	X	X										
16	NW 1	C	1			X				X			9/17/24		X	X	X										

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Relinquished By:	Date: 9/17/24 Time: 1443	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address: pm@etechenv.com
Time:			REMARKS:
Delivered By: (Circle One)	Observed Temp. °C: -0.3	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C: -0.9	Yes <input type="checkbox"/> No <input type="checkbox"/>	Bacteria (only) Sample Condition: Cool <input type="checkbox"/> Intact <input type="checkbox"/>
		Checked By:	Thermometer ID #140 Correction Factor -0.6°C
			Yes <input type="checkbox"/> No <input type="checkbox"/>



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

September 23, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PAVO FRIO FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 09/18/24 14:41.

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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 3 @ 5' (H245683-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2024	ND	2.21	110	2.00	4.35	
Toluene*	<0.050	0.050	09/19/2024	ND	2.26	113	2.00	3.98	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.28	114	2.00	4.12	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.93	115	6.00	3.44	
Total BTX	<0.300	0.300	09/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	64.0	16.0	09/19/2024	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	09/19/2024	ND	190	95.2	200	0.671	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	196	97.8	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 77.7 % 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: 09/18/2024
 Reported: 09/23/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 20 @ 7' (H245683-02)

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	09/19/2024	ND	2.21	110	2.00	4.35		
Toluene*	<0.050	0.050	09/19/2024	ND	2.26	113	2.00	3.98		
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.28	114	2.00	4.12		
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.93	115	6.00	3.44		
Total BTEX	<0.300	0.300	09/19/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/19/2024	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	09/19/2024	ND	190	95.2	200	0.671	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	196	97.8	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 23 @ 6' (H245683-03)

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	09/19/2024	ND	2.21	110	2.00	4.35	
Toluene*	<0.050	0.050	09/19/2024	ND	2.26	113	2.00	3.98	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.28	114	2.00	4.12	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.93	115	6.00	3.44	
Total BTEX	<0.300	0.300	09/19/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	09/19/2024	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	09/19/2024	ND	190	95.2	200	0.671	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	196	97.8	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 35 @ 7' (H245683-04)

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	09/19/2024	ND	2.21	110	2.00	4.35		
Toluene*	<0.050	0.050	09/19/2024	ND	2.26	113	2.00	3.98		
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.28	114	2.00	4.12		
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.93	115	6.00	3.44		
Total BTEX	<0.300	0.300	09/19/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	09/19/2024	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	09/19/2024	ND	190	95.2	200	0.671	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	196	97.8	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 42 @ 4' (H245683-05)

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	09/19/2024	ND	2.21	110	2.00	4.35		
Toluene*	<0.050	0.050	09/19/2024	ND	2.26	113	2.00	3.98		
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.28	114	2.00	4.12		
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.93	115	6.00	3.44		
Total BTEX	<0.300	0.300	09/19/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	09/19/2024	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	09/19/2024	ND	190	95.2	200	0.671	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	196	97.8	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 89 @ 6' (H245683-06)

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	09/19/2024	ND	2.21	110	2.00	4.35		
Toluene*	<0.050	0.050	09/19/2024	ND	2.26	113	2.00	3.98		
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.28	114	2.00	4.12		
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.93	115	6.00	3.44		
Total BTEX	<0.300	0.300	09/19/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	09/19/2024	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	09/19/2024	ND	190	95.2	200	0.671	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	196	97.8	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 90 @ 6' (H245683-07)

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	09/19/2024	ND	2.21	110	2.00	4.35		
Toluene*	<0.050	0.050	09/19/2024	ND	2.26	113	2.00	3.98		
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.28	114	2.00	4.12		
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.93	115	6.00	3.44		
Total BTEX	<0.300	0.300	09/19/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	09/19/2024	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	09/19/2024	ND	190	95.2	200	0.671	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	196	97.8	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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 HOBBS NM, 88240
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Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 91 @ 6' (H245683-08)

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	09/19/2024	ND	2.15	107	2.00	2.84		
Toluene*	<0.050	0.050	09/19/2024	ND	2.07	103	2.00	3.37		
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.13	107	2.00	4.21		
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.38	106	6.00	4.23		
Total BTEX	<0.300	0.300	09/19/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	09/19/2024	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	09/19/2024	ND	190	95.2	200	0.671	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	196	97.8	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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 HOBBS NM, 88240
 Fax To:

Received: 09/18/2024
 Reported: 09/23/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 92 @ 6' (H245683-09)

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	09/19/2024	ND	2.15	107	2.00	2.84		
Toluene*	<0.050	0.050	09/19/2024	ND	2.07	103	2.00	3.37		
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.13	107	2.00	4.21		
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.38	106	6.00	4.23		
Total BTEx	<0.300	0.300	09/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	592	16.0	09/19/2024	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	09/19/2024	ND	190	95.2	200	0.671	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	196	97.8	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 80.2 % 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: 09/18/2024
 Reported: 09/23/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 93 @ 6' (H245683-10)

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	09/19/2024	ND	2.15	107	2.00	2.84		
Toluene*	<0.050	0.050	09/19/2024	ND	2.07	103	2.00	3.37		
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.13	107	2.00	4.21		
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.38	106	6.00	4.23		
Total BTEX	<0.300	0.300	09/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	320	16.0	09/19/2024	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	09/19/2024	ND	190	95.2	200	0.671	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	196	97.8	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 77.6 % 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: 09/18/2024
 Reported: 09/23/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 94 @ 7' (H245683-11)

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	09/19/2024	ND	2.15	107	2.00	2.84		
Toluene*	<0.050	0.050	09/19/2024	ND	2.07	103	2.00	3.37		
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.13	107	2.00	4.21		
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.38	106	6.00	4.23		
Total BTEX	<0.300	0.300	09/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	09/19/2024	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	09/19/2024	ND	190	95.2	200	0.671	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	196	97.8	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 71.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 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: 09/18/2024
 Reported: 09/23/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 95 @ 6' (H245683-12)

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	09/19/2024	ND	2.15	107	2.00	2.84		
Toluene*	<0.050	0.050	09/19/2024	ND	2.07	103	2.00	3.37		
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.13	107	2.00	4.21		
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.38	106	6.00	4.23		
Total BTEX	<0.300	0.300	09/19/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/19/2024	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	09/19/2024	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	200	99.9	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 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: 09/18/2024
 Reported: 09/23/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 96 @ 6' (H245683-13)

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	09/19/2024	ND	2.15	107	2.00	2.84	
Toluene*	<0.050	0.050	09/19/2024	ND	2.07	103	2.00	3.37	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.13	107	2.00	4.21	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.38	106	6.00	4.23	
Total BTEx	<0.300	0.300	09/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	09/19/2024	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	09/19/2024	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	200	99.9	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 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: 09/18/2024
 Reported: 09/23/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 97 @ 6' (H245683-14)

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	09/20/2024	ND	2.15	107	2.00	2.84		
Toluene*	<0.050	0.050	09/20/2024	ND	2.07	103	2.00	3.37		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	4.21		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.38	106	6.00	4.23		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	09/19/2024	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	09/19/2024	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	200	99.9	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 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: 09/18/2024
 Reported: 09/23/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 98 @ 6' (H245683-15)

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	09/20/2024	ND	2.15	107	2.00	2.84		
Toluene*	<0.050	0.050	09/20/2024	ND	2.07	103	2.00	3.37		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	4.21		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.38	106	6.00	4.23		
Total BTEx	<0.300	0.300	09/20/2024	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	48.0	16.0	09/20/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	200	99.9	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 96.3 % 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: 09/18/2024
 Reported: 09/23/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 99 @ 6' (H245683-16)

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	09/20/2024	ND	2.15	107	2.00	2.84		
Toluene*	<0.050	0.050	09/20/2024	ND	2.07	103	2.00	3.37		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	4.21		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.38	106	6.00	4.23		
Total BTEX	<0.300	0.300	09/20/2024	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	112	16.0	09/20/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	200	99.9	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 89.5 % 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: 09/18/2024
 Reported: 09/23/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 100 @ 7' (H245683-17)

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	09/20/2024	ND	2.15	107	2.00	2.84		
Toluene*	<0.050	0.050	09/20/2024	ND	2.07	103	2.00	3.37		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	4.21		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.38	106	6.00	4.23		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/20/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	200	99.9	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 91.5 % 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: 09/18/2024
 Reported: 09/23/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 2 (H245683-18)

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	09/20/2024	ND	2.15	107	2.00	2.84		
Toluene*	<0.050	0.050	09/20/2024	ND	2.07	103	2.00	3.37		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	4.21		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.38	106	6.00	4.23		
Total BTEX	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	336	16.0	09/20/2024	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	200	99.9	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 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: 09/18/2024
 Reported: 09/23/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 3 (H245683-19)

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	09/20/2024	ND	2.15	107	2.00	2.84	
Toluene*	<0.050	0.050	09/20/2024	ND	2.07	103	2.00	3.37	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	4.21	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.38	106	6.00	4.23	
Total BTEX	<0.300	0.300	09/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	64.0	16.0	09/20/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	200	99.9	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 76.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 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: 09/18/2024
 Reported: 09/23/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 2 (H245683-20)

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	09/20/2024	ND	2.15	107	2.00	2.84		
Toluene*	<0.050	0.050	09/20/2024	ND	2.07	103	2.00	3.37		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	4.21		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.38	106	6.00	4.23		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	09/20/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	200	99.9	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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: 09/18/2024
 Reported: 09/23/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 3 (H245683-21)

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	09/20/2024	ND	2.15	107	2.00	2.84		
Toluene*	<0.050	0.050	09/20/2024	ND	2.07	103	2.00	3.37		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.13	107	2.00	4.21		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.38	106	6.00	4.23		
Total BTEX	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	09/20/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	207	104	200	1.31	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	200	99.9	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					

Surrogate: 1-Chlorooctane 69.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.0 % 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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A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

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

Page 1 of 3

Page 24 of 26

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																									
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																									
Address: 2617 West Marland				Company: Mewbourne																													
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																													
Phone #: (575) 264-9884 Fax #:				Address:																													
Project #: 20984 Project Owner: Mewbourne				City:																													
Project Name: Pavo Frio Flow Line				State: Zip:																													
Project Location: 32.744072, -104.115361				Phone #:																													
Sampler Name: Patrick Muniez				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					
11245083				C		1		X												X				9/18/24				X		X		X	
2		FL 20 @ 7'		C		1		X												X				9/18/24				X		X		X	
3		FL 23 @ 6'		C		1		X												X				9/18/24				X		X		X	
4		FL 35 @ 7'		C		1		X												X				9/18/24				X		X		X	
5		FL 42 @ 4'		C		1		X												X				9/18/24				X		X		X	
6		FL 89 @ 6'		C		1		X												X				9/18/24				X		X		X	
7		FL 90 @ 6'		C		1		X												X				9/18/24				X		X		X	
8		FL 91 @ 6'		C		1		X												X				9/18/24				X		X		X	
9		FL 92 @ 6'		C		1		X												X				9/18/24				X		X		X	
10		FL 93 @ 6'		C		1		X												X				9/18/24				X		X		X	

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Relinquished By:		Date: 9-18-24		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 1441						All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
Time:							
Delivered By: (Circle One)		Observed Temp. °C 9.12		Sample Condition Cool Intact		CHECKED BY: (Initials) SK	
Sampler - UPS - Bus - Other:		Corrected Temp. °C 7.86		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
						Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	
						Thermometer ID #140 Correction Factor -0.6°C	
						Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	

FORM-006 R 3.5 08/05/24

-9.70

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 3

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																							
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																							
Address: 2617 West Marland				Company: Mewbourne																											
City: Hobbs		State: NM Zip: 88240		Attn: Connor Walker																											
Phone #: (575) 264-9884		Fax #:		Address:																											
Project #: 20984		Project Owner: Mewbourne		City:																											
Project Name: Pavo Frio Flow Line				State: Zip:																											
Project Location: 32.744072, -104.115361				Phone #:																											
Sampler Name: Patrick Muniez				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			
4245083																															
11		FL 94 @ 7'		C 1				X												X		9/18/24				X		X		X	
12		FL 95 @ 6'		C 1				X												X		9/18/24				X		X		X	
13		FL 96 @ 6'		C 1				X												X		9/18/24				X		X		X	
14		FL 97 @ 6'		C 1				X												X		9/18/24				X		X		X	
15		FL 98 @ 6'		C 1				X												X		9/18/24				X		X		X	
16		FL 99 @ 6'		C 1				X												X		9/18/24				X		X		X	
17		FL 100 @ 7'		C 1				X												X		9/18/24				X		X		X	
18		NW 2		C 1				X												X		9/18/24				X		X		X	
19		NW 3		C 1				X												X		9/18/24				X		X		X	
20		SW 2		C 1				X												X		9/18/24				X		X		X	

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Relinquished By:		Date: 9-18-24		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 1441						All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
Time:							
Delivered By: (Circle One)		Observed Temp. °C -9.1°C		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) SK	
Sampler - UPS - Bus - Other:		Corrected Temp. °C -9.7°C		<input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input 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"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	
						Observed Temp. °C Corrected Temp. °C	

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


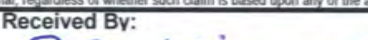

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 3 of 3

Page 26 of 26

[illegible]

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Relinquished By: 		Date: 9-18-24 Time: 1441		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date: Time:		Received By:		REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: -9.1°C Corrected Temp. °C: -9.7°C		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input 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 <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			



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

September 25, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PAVO FRIO FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 09/19/24 14:55.

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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/19/2024
 Reported: 09/25/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 101 @ 6' (H245725-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2024	ND	2.29	115	2.00	2.22	
Toluene*	<0.050	0.050	09/20/2024	ND	2.43	121	2.00	4.15	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.61	130	2.00	4.19	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.85	131	6.00	4.09	
Total BTX	<0.300	0.300	09/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/20/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	190	95.1	200	1.99	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	188	94.0	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.7 % 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: 09/19/2024
 Reported: 09/25/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 102 @ 6' (H245725-02)

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	09/20/2024	ND	2.29	115	2.00	2.22		
Toluene*	<0.050	0.050	09/20/2024	ND	2.43	121	2.00	4.15		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.61	130	2.00	4.19		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.85	131	6.00	4.09		
Total BTEX	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	144	16.0	09/20/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	190	95.1	200	1.99	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	188	94.0	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.0 % 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: 09/19/2024
 Reported: 09/25/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 103 @ 7' (H245725-03)

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	09/20/2024	ND	2.29	115	2.00	2.22		
Toluene*	<0.050	0.050	09/20/2024	ND	2.43	121	2.00	4.15		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.61	130	2.00	4.19		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.85	131	6.00	4.09		
Total BTEX	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	09/20/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	190	95.1	200	1.99	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	188	94.0	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 82.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 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: 09/19/2024
 Reported: 09/25/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 105 @ 6' (H245725-04)

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	09/20/2024	ND	2.29	115	2.00	2.22		
Toluene*	<0.050	0.050	09/20/2024	ND	2.43	121	2.00	4.15		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.61	130	2.00	4.19		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.85	131	6.00	4.09		
Total BTEX	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	09/20/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	190	95.1	200	1.99	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	188	94.0	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 72.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.2 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 09/19/2024
 Reported: 09/25/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 106 @ 6' (H245725-05)

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	09/20/2024	ND	2.29	115	2.00	2.22		
Toluene*	<0.050	0.050	09/20/2024	ND	2.43	121	2.00	4.15		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.61	130	2.00	4.19		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.85	131	6.00	4.09		
Total BTEX	<0.300	0.300	09/20/2024	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	512	16.0	09/20/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	190	95.1	200	1.99	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	188	94.0	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.5 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 09/19/2024
 Reported: 09/25/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 107 @ 6' (H245725-06)

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	09/20/2024	ND	2.29	115	2.00	2.22		
Toluene*	<0.050	0.050	09/20/2024	ND	2.43	121	2.00	4.15		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.61	130	2.00	4.19		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.85	131	6.00	4.09		
Total BTEX	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	400	16.0	09/20/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	190	95.1	200	1.99	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	188	94.0	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.1 % 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: 09/19/2024
 Reported: 09/25/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 108 @ 6' (H245725-07)

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	09/20/2024	ND	2.29	115	2.00	2.22		
Toluene*	<0.050	0.050	09/20/2024	ND	2.43	121	2.00	4.15		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.61	130	2.00	4.19		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.85	131	6.00	4.09		
Total BTEX	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	09/20/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	190	95.1	200	1.99	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	188	94.0	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.2 % 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: 09/19/2024
 Reported: 09/25/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 109 @ 6' (H245725-08)

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	09/20/2024	ND	2.29	115	2.00	2.22		
Toluene*	<0.050	0.050	09/20/2024	ND	2.43	121	2.00	4.15		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.61	130	2.00	4.19		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	7.85	131	6.00	4.09		
Total BTEx	<0.300	0.300	09/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	09/20/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	190	95.1	200	1.99	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	188	94.0	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.5 % 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: 09/19/2024
 Reported: 09/25/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 110 @ 6' (H245725-09)

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	09/21/2024	ND	2.29	115	2.00	2.22		
Toluene*	<0.050	0.050	09/21/2024	ND	2.43	121	2.00	4.15		
Ethylbenzene*	<0.050	0.050	09/21/2024	ND	2.61	130	2.00	4.19		
Total Xylenes*	<0.150	0.150	09/21/2024	ND	7.85	131	6.00	4.09		
Total BTEX	<0.300	0.300	09/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	512	16.0	09/20/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	190	95.1	200	1.99	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	188	94.0	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 74.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.5 % 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: 09/19/2024
 Reported: 09/25/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 111 @ 6' (H245725-10)

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	09/21/2024	ND	2.29	115	2.00	2.22		
Toluene*	<0.050	0.050	09/21/2024	ND	2.43	121	2.00	4.15		
Ethylbenzene*	<0.050	0.050	09/21/2024	ND	2.61	130	2.00	4.19		
Total Xylenes*	<0.150	0.150	09/21/2024	ND	7.85	131	6.00	4.09		
Total BTEx	<0.300	0.300	09/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	09/20/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	190	95.1	200	1.99	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	188	94.0	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.0 % 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: 09/19/2024
 Reported: 09/25/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 112 @ 6' (H245725-11)

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	09/21/2024	ND	2.29	115	2.00	2.22		
Toluene*	<0.050	0.050	09/21/2024	ND	2.43	121	2.00	4.15		
Ethylbenzene*	<0.050	0.050	09/21/2024	ND	2.61	130	2.00	4.19		
Total Xylenes*	<0.150	0.150	09/21/2024	ND	7.85	131	6.00	4.09		
Total BTEX	<0.300	0.300	09/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	09/20/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	190	95.1	200	1.99	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	188	94.0	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.7 % 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: 09/19/2024
 Reported: 09/25/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 113 @ 6' (H245725-12)

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	09/21/2024	ND	2.29	115	2.00	2.22		
Toluene*	<0.050	0.050	09/21/2024	ND	2.43	121	2.00	4.15		
Ethylbenzene*	<0.050	0.050	09/21/2024	ND	2.61	130	2.00	4.19		
Total Xylenes*	<0.150	0.150	09/21/2024	ND	7.85	131	6.00	4.09		
Total BTEx	<0.300	0.300	09/21/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/20/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	190	95.1	200	1.99	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	188	94.0	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.0 % 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: 09/19/2024
 Reported: 09/25/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: NW 4 (H245725-13)

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	09/20/2024	ND	2.26	113	2.00	2.86		
Toluene*	<0.050	0.050	09/20/2024	ND	2.10	105	2.00	1.45		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.11	105	2.00	0.620		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.34	106	6.00	0.358		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/20/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	190	95.1	200	1.99	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	188	94.0	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 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: 09/19/2024
 Reported: 09/25/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: NW 5 (H245725-14)

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	09/20/2024	ND	2.26	113	2.00	2.86		
Toluene*	<0.050	0.050	09/20/2024	ND	2.10	105	2.00	1.45		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.11	105	2.00	0.620		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.34	106	6.00	0.358		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/20/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	190	95.1	200	1.99	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	188	94.0	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 85.1 % 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: 09/19/2024
 Reported: 09/25/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 4 (H245725-15)

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	09/20/2024	ND	2.26	113	2.00	2.86		
Toluene*	<0.050	0.050	09/20/2024	ND	2.10	105	2.00	1.45		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.11	105	2.00	0.620		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.34	106	6.00	0.358		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	09/20/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	190	95.1	200	1.99	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	188	94.0	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.5 % 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: 09/19/2024
 Reported: 09/25/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 5 (H245725-16)

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	09/20/2024	ND	2.26	113	2.00	2.86		
Toluene*	<0.050	0.050	09/20/2024	ND	2.10	105	2.00	1.45		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.11	105	2.00	0.620		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.34	106	6.00	0.358		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/20/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	190	95.1	200	1.99	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	188	94.0	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.0 % 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: 09/19/2024
 Reported: 09/25/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 9 (H245725-17)

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	09/20/2024	ND	2.26	113	2.00	2.86		
Toluene*	<0.050	0.050	09/20/2024	ND	2.10	105	2.00	1.45		
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.11	105	2.00	0.620		
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.34	106	6.00	0.358		
Total BTEX	<0.300	0.300	09/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/20/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	190	95.1	200	1.99	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	188	94.0	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.8 % 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: 09/19/2024
 Reported: 09/25/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 9 (H245725-18)

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	09/20/2024	ND	2.26	113	2.00	2.86	
Toluene*	<0.050	0.050	09/20/2024	ND	2.10	105	2.00	1.45	
Ethylbenzene*	<0.050	0.050	09/20/2024	ND	2.11	105	2.00	0.620	
Total Xylenes*	<0.150	0.150	09/20/2024	ND	6.34	106	6.00	0.358	
Total BTEX	<0.300	0.300	09/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/20/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	196	98.0	200	3.03	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	184	92.2	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 1 of 2

Company Name: Etch Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Address: 2617 West Marland				Company: Mewbourne																									
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																									
Phone #: (575) 264-9884 Fax #:				Address:																									
Project #: 20984 Project Owner: Mewbourne				City:																									
Project Name: Pavo Frio Flow Line				State: Zip:																									
Project Location: 32.744072, -104.115361				Phone #:																									
Sampler Name: Patrick Muniez				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															
1	FL 101 @ 6'	C	1			X				X			9/19/24		X	X	X												
2	FL 102 @ 6'	C	1			X				X			9/19/24		X	X	X												
3	FL 103 @ 7'	C	1			X				X			9/19/24		X	X	X												
4	FL 105 @ 6'	C	1			X				X			9/19/24		X	X	X												
5	FL 106 @ 6'	C	1			X				X			9/19/24		X	X	X												
6	FL 107 @ 6'	C	1			X				X			9/19/24		X	X	X												
7	FL 108 @ 6'	C	1			X				X			9/19/24		X	X	X												
8	FL 109 @ 6'	C	1			X				X			9/19/24		X	X	X												
9	FL 110 @ 6'	C	1			X				X			9/19/24		X	X	X												
10	FL 111 @ 6'	C	1			X				X			9/19/24		X	X	X												

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Relinquished By:	Date: 9-19-24	Received By:	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
	Time: 1455		All Results are emailed. Please provide Email address: pm@etechenv.com
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		
Delivered By: (Circle One)	Observed Temp. °C: -5.3	Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C: -5.9	CHECKED BY: (Initials) AP	Bacteria (only) Sample Condition: Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C: Corrected Temp. °C:

FORM-006 R 3.5 08/05/24

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

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Page 2 of 2

[illegible]

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Relinquished By:		Date: 9-9-24	Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: 1455	apowers		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 -5.8°C	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) AP	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No
Sampler - UPS - Bus - Other:		Corrected Temp. °C -5.9°C	<input type="checkbox"/> No <input type="checkbox"/> No		Thermometer ID #140 Correction Factor -0.6°C	<input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C



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

September 27, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PAVO FRIO FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 09/23/24 14:42.

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, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 79 @ 3' (H245755-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2024	ND	2.15	108	2.00	3.88	
Toluene*	<0.050	0.050	09/24/2024	ND	2.24	112	2.00	2.32	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.25	113	2.00	0.961	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.94	116	6.00	0.924	
Total BTX	<0.300	0.300	09/24/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/24/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	204	102	200	0.799	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	195	97.7	200	0.653	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.0 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 81 @ 2' (H245755-02)

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	09/24/2024	ND	2.15	108	2.00	3.88		
Toluene*	<0.050	0.050	09/24/2024	ND	2.24	112	2.00	2.32		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.25	113	2.00	0.961		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.94	116	6.00	0.924		
Total BTEX	<0.300	0.300	09/24/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/24/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	204	102	200	0.799	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	195	97.7	200	0.653	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 104 @ 6' (H245755-03)

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	09/24/2024	ND	2.15	108	2.00	3.88		
Toluene*	<0.050	0.050	09/24/2024	ND	2.24	112	2.00	2.32		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.25	113	2.00	0.961		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.94	116	6.00	0.924		
Total BTEX	<0.300	0.300	09/24/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/24/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	204	102	200	0.799	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	195	97.7	200	0.653	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 114 @ 6.5' (H245755-04)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/24/2024	ND	2.15	108	2.00	3.88		
Toluene*	<0.050	0.050	09/24/2024	ND	2.24	112	2.00	2.32		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.25	113	2.00	0.961		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.94	116	6.00	0.924		
Total BTX	<0.300	0.300	09/24/2024	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	09/24/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	204	102	200	0.799	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	195	97.7	200	0.653	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.1 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 115 @ 6.5' (H245755-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/24/2024	ND	2.15	108	2.00	3.88		
Toluene*	<0.050	0.050	09/24/2024	ND	2.24	112	2.00	2.32		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.25	113	2.00	0.961		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.94	116	6.00	0.924		
Total BTX	<0.300	0.300	09/24/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/24/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	204	102	200	0.799	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	195	97.7	200	0.653	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 116 @ 6.5' (H245755-06)

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	09/24/2024	ND	2.15	108	2.00	3.88		
Toluene*	<0.050	0.050	09/24/2024	ND	2.24	112	2.00	2.32		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.25	113	2.00	0.961		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.94	116	6.00	0.924		
Total BTEX	<0.300	0.300	09/24/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/24/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	204	102	200	0.799	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	195	97.7	200	0.653	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.3 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 9 (H245755-07)

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	09/24/2024	ND	2.15	108	2.00	3.88		
Toluene*	<0.050	0.050	09/24/2024	ND	2.24	112	2.00	2.32		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.25	113	2.00	0.961		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.94	116	6.00	0.924		
Total BTEX	<0.300	0.300	09/24/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/24/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	204	102	200	0.799	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	195	97.7	200	0.653	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.3 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 10 (H245755-08)

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	09/24/2024	ND	2.15	108	2.00	3.88		
Toluene*	<0.050	0.050	09/24/2024	ND	2.24	112	2.00	2.32		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.25	113	2.00	0.961		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.94	116	6.00	0.924		
Total BTEX	<0.300	0.300	09/24/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/24/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	204	102	200	0.799	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	195	97.7	200	0.653	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.0 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 11 (H245755-09)

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	09/24/2024	ND	2.15	108	2.00	3.88		
Toluene*	<0.050	0.050	09/24/2024	ND	2.24	112	2.00	2.32		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.25	113	2.00	0.961		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.94	116	6.00	0.924		
Total BTEX	<0.300	0.300	09/24/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/24/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	204	102	200	0.799	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	195	97.7	200	0.653	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.8 % 49.1-148

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

Received: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 12 (H245755-10)

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	09/24/2024	ND	2.15	108	2.00	3.88		
Toluene*	<0.050	0.050	09/24/2024	ND	2.24	112	2.00	2.32		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.25	113	2.00	0.961		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.94	116	6.00	0.924		
Total BTEX	<0.300	0.300	09/24/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	09/24/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	204	102	200	0.799	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	195	97.7	200	0.653	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.6 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 13 (H245755-11)

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	09/24/2024	ND	2.15	108	2.00	3.88		
Toluene*	<0.050	0.050	09/24/2024	ND	2.24	112	2.00	2.32		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.25	113	2.00	0.961		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.94	116	6.00	0.924		
Total BTEX	<0.300	0.300	09/24/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/24/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	204	102	200	0.799	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	195	97.7	200	0.653	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.3 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 14 (H245755-12)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/24/2024	ND	2.15	108	2.00	3.88		
Toluene*	<0.050	0.050	09/24/2024	ND	2.24	112	2.00	2.32		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.25	113	2.00	0.961		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.94	116	6.00	0.924		
Total BTX	<0.300	0.300	09/24/2024	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	288	16.0	09/24/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	204	102	200	0.799	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	195	97.7	200	0.653	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.0 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 15 (H245755-13)

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	09/24/2024	ND	1.96	98.0	2.00	0.289		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.239		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.05	103	2.00	0.254		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.13	102	6.00	0.392		
Total BTEX	<0.300	0.300	09/24/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1420	16.0	09/24/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	204	102	200	0.799	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	195	97.7	200	0.653	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.4 % 49.1-148

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Analytical Results For:

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

Received: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 16 (H245755-14)

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	09/24/2024	ND	1.96	98.0	2.00	0.289		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.239		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.05	103	2.00	0.254		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.13	102	6.00	0.392		
Total BTEX	<0.300	0.300	09/24/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	09/24/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	204	102	200	0.799	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	195	97.7	200	0.653	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.4 % 49.1-148

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

Received: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 17 (H245755-15)

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	09/24/2024	ND	1.96	98.0	2.00	0.289		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.239		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.05	103	2.00	0.254		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.13	102	6.00	0.392		
Total BTEX	<0.300	0.300	09/24/2024	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	704	16.0	09/24/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	204	102	200	0.799	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	195	97.7	200	0.653	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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Received: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 18 (H245755-16)

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	09/24/2024	ND	1.96	98.0	2.00	0.289		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.239		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.05	103	2.00	0.254		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.13	102	6.00	0.392		
Total BTEX	<0.300	0.300	09/24/2024	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	32.0	16.0	09/24/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	204	102	200	0.799	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	195	97.7	200	0.653	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 19 (H245755-17)

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	09/24/2024	ND	1.96	98.0	2.00	0.289		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.239		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.05	103	2.00	0.254		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.13	102	6.00	0.392		
Total BTEX	<0.300	0.300	09/24/2024	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	304	16.0	09/24/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	204	102	200	0.799	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	195	97.7	200	0.653	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 100 % 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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 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 20 (H245755-18)

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	09/24/2024	ND	1.96	98.0	2.00	0.289		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.239		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.05	103	2.00	0.254		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.13	102	6.00	0.392		
Total BTEX	<0.300	0.300	09/24/2024	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	128	16.0	09/24/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	204	102	200	0.799	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	195	97.7	200	0.653	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 21 (H245755-19)

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	09/24/2024	ND	1.96	98.0	2.00	0.289		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.239		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.05	103	2.00	0.254		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.13	102	6.00	0.392		
Total BTEX	<0.300	0.300	09/24/2024	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	09/24/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	204	102	200	0.799	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	195	97.7	200	0.653	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 22 (H245755-20)

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	09/24/2024	ND	1.96	98.0	2.00	0.289	
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.239	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.05	103	2.00	0.254	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.13	102	6.00	0.392	
Total BTEX	<0.300	0.300	09/24/2024	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	48.0	16.0	09/24/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	193	96.5	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	181	90.5	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

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 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 23 (H245755-21)

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	09/24/2024	ND	1.96	98.0	2.00	0.289		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.239		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.05	103	2.00	0.254		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.13	102	6.00	0.392		
Total BTEX	<0.300	0.300	09/24/2024	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	272	16.0	09/24/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	193	96.5	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	181	90.5	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

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 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 24 (H245755-22)

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	09/24/2024	ND	1.96	98.0	2.00	0.289		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.239		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.05	103	2.00	0.254		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.13	102	6.00	0.392		
Total BTEX	<0.300	0.300	09/24/2024	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	240	16.0	09/24/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	193	96.5	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	181	90.5	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 49.1-148

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 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 25 (H245755-23)

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	09/24/2024	ND	1.96	98.0	2.00	0.289		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.239		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.05	103	2.00	0.254		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.13	102	6.00	0.392		
Total BTEX	<0.300	0.300	09/24/2024	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	256	16.0	09/24/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	193	96.5	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	181	90.5	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.8 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 26 (H245755-24)

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	09/24/2024	ND	1.96	98.0	2.00	0.289	
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.239	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.05	103	2.00	0.254	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.13	102	6.00	0.392	
Total BTEX	<0.300	0.300	09/24/2024	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	1490	16.0	09/24/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	193	96.5	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	181	90.5	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.8 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 27 (H245755-25)

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	09/24/2024	ND	1.96	98.0	2.00	0.289		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.239		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.05	103	2.00	0.254		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.13	102	6.00	0.392		
Total BTEX	<0.300	0.300	09/24/2024	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	352	16.0	09/24/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	193	96.5	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	181	90.5	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.2 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 28 (H245755-26)

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	09/24/2024	ND	1.96	98.0	2.00	0.289		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.239		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.05	103	2.00	0.254		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.13	102	6.00	0.392		
Total BTEX	<0.300	0.300	09/24/2024	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	32.0	16.0	09/24/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	193	96.5	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	181	90.5	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 29 (H245755-27)

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	09/24/2024	ND	1.96	98.0	2.00	0.289		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.239		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.05	103	2.00	0.254		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.13	102	6.00	0.392		
Total BTEX	<0.300	0.300	09/24/2024	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	448	16.0	09/24/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	193	96.5	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	181	90.5	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 9 (H245755-28)

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	09/24/2024	ND	1.96	98.0	2.00	0.289		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.239		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.05	103	2.00	0.254		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.13	102	6.00	0.392		
Total BTEX	<0.300	0.300	09/24/2024	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	64.0	16.0	09/24/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	193	96.5	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	181	90.5	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 10 (H245755-29)

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	09/24/2024	ND	1.96	98.0	2.00	0.289	
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.239	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.05	103	2.00	0.254	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.13	102	6.00	0.392	
Total BTEX	<0.300	0.300	09/24/2024	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	640	16.0	09/24/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	193	96.5	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	181	90.5	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Analytical Results For:

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

Received: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 11 (H245755-30)

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	09/24/2024	ND	1.96	98.0	2.00	0.289		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.239		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.05	103	2.00	0.254		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.13	102	6.00	0.392		
Total BTEx	<0.300	0.300	09/24/2024	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	544	16.0	09/24/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	193	96.5	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	181	90.5	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 112 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 12 (H245755-31)

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	09/24/2024	ND	1.96	98.0	2.00	0.289		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.239		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.05	103	2.00	0.254		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.13	102	6.00	0.392		
Total BTEX	<0.300	0.300	09/24/2024	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	112	16.0	09/24/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	193	96.5	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	181	90.5	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 13 (H245755-32)

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	09/24/2024	ND	1.96	98.0	2.00	0.289		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.239		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.05	103	2.00	0.254		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.13	102	6.00	0.392		
Total BTEX	<0.300	0.300	09/24/2024	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	80.0	16.0	09/24/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	193	96.5	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	181	90.5	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 14 (H245755-33)

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	09/24/2024	ND	2.22	111	2.00	6.00		
Toluene*	<0.050	0.050	09/24/2024	ND	2.35	117	2.00	9.54		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.57	128	2.00	13.0		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	7.79	130	6.00	13.3		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	09/24/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	193	96.5	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	181	90.5	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.3 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 15 (H245755-34)

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	09/24/2024	ND	2.22	111	2.00	6.00		
Toluene*	<0.050	0.050	09/24/2024	ND	2.35	117	2.00	9.54		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.57	128	2.00	13.0		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	7.79	130	6.00	13.3		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 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	09/24/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	193	96.5	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	181	90.5	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.3 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 16 (H245755-35)

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	09/24/2024	ND	2.22	111	2.00	6.00		
Toluene*	<0.050	0.050	09/24/2024	ND	2.35	117	2.00	9.54		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.57	128	2.00	13.0		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	7.79	130	6.00	13.3		
Total BTEX	<0.300	0.300	09/24/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/24/2024	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	09/24/2024	ND	193	96.5	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	181	90.5	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.5 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 17 (H245755-36)

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	09/24/2024	ND	2.22	111	2.00	6.00		
Toluene*	<0.050	0.050	09/24/2024	ND	2.35	117	2.00	9.54		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.57	128	2.00	13.0		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	7.79	130	6.00	13.3		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/24/2024	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	09/24/2024	ND	193	96.5	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	181	90.5	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.0 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 18 (H245755-37)

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	09/24/2024	ND	2.22	111	2.00	6.00		
Toluene*	<0.050	0.050	09/24/2024	ND	2.35	117	2.00	9.54		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.57	128	2.00	13.0		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	7.79	130	6.00	13.3		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	09/24/2024	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	09/24/2024	ND	193	96.5	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	181	90.5	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.9 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 19 (H245755-38)

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	09/24/2024	ND	2.22	111	2.00	6.00		
Toluene*	<0.050	0.050	09/24/2024	ND	2.35	117	2.00	9.54		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.57	128	2.00	13.0		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	7.79	130	6.00	13.3		
Total BTEx	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	09/24/2024	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	09/24/2024	ND	193	96.5	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	181	90.5	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.0 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 20 (H245755-39)

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	09/24/2024	ND	2.22	111	2.00	6.00		
Toluene*	<0.050	0.050	09/24/2024	ND	2.35	117	2.00	9.54		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.57	128	2.00	13.0		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	7.79	130	6.00	13.3		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/24/2024	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	09/24/2024	ND	193	96.5	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	181	90.5	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.5 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 21 (H245755-40)

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	09/24/2024	ND	2.22	111	2.00	6.00		
Toluene*	<0.050	0.050	09/24/2024	ND	2.35	117	2.00	9.54		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.57	128	2.00	13.0		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	7.79	130	6.00	13.3		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 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	288	16.0	09/24/2024	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	09/24/2024	ND	211	105	200	0.269	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	205	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 22 (H245755-41)

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	09/24/2024	ND	2.22	111	2.00	6.00		
Toluene*	<0.050	0.050	09/24/2024	ND	2.35	117	2.00	9.54		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.57	128	2.00	13.0		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	7.79	130	6.00	13.3		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	496	16.0	09/24/2024	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	09/24/2024	ND	211	105	200	0.269	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	205	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 23 (H245755-42)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/24/2024	ND	2.22	111	2.00	6.00		
Toluene*	<0.050	0.050	09/24/2024	ND	2.35	117	2.00	9.54		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.57	128	2.00	13.0		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	7.79	130	6.00	13.3		
Total BTX	<0.300	0.300	09/24/2024	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	48.0	16.0	09/24/2024	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	09/24/2024	ND	211	105	200	0.269	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	205	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 24 (H245755-43)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/24/2024	ND	2.22	111	2.00	6.00		
Toluene*	<0.050	0.050	09/24/2024	ND	2.35	117	2.00	9.54		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.57	128	2.00	13.0		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	7.79	130	6.00	13.3		
Total BTX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	09/24/2024	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	09/24/2024	ND	211	105	200	0.269	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	205	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 87.8 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 25 (H245755-44)

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	09/24/2024	ND	2.22	111	2.00	6.00	
Toluene*	<0.050	0.050	09/24/2024	ND	2.35	117	2.00	9.54	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.57	128	2.00	13.0	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	7.79	130	6.00	13.3	
Total BTEX	<0.300	0.300	09/24/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/24/2024	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	09/24/2024	ND	211	105	200	0.269	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	205	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.8 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 26 (H245755-45)

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	09/24/2024	ND	2.22	111	2.00	6.00		
Toluene*	<0.050	0.050	09/24/2024	ND	2.35	117	2.00	9.54		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.57	128	2.00	13.0		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	7.79	130	6.00	13.3		
Total BTEX	<0.300	0.300	09/24/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/24/2024	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	09/24/2024	ND	211	105	200	0.269	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	205	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WW 27 (H245755-46)

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	09/24/2024	ND	2.16	108	2.00	4.71	
Toluene*	<0.050	0.050	09/24/2024	ND	2.04	102	2.00	3.33	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.05	103	2.00	2.40	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.14	102	6.00	1.53	
Total BTEX	<0.300	0.300	09/24/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/24/2024	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	09/24/2024	ND	211	105	200	0.269	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	205	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.1 % 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: 09/23/2024
 Reported: 09/27/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 6 (H245755-47)

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	09/24/2024	ND	2.16	108	2.00	4.71	
Toluene*	<0.050	0.050	09/24/2024	ND	2.04	102	2.00	3.33	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.05	103	2.00	2.40	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.14	102	6.00	1.53	
Total BTEX	<0.300	0.300	09/24/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/24/2024	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	09/24/2024	ND	211	105	200	0.269	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	205	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 49.1-148

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

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

Page 1 of 5

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				Page 1 of 5																				
Project Manager: Lance Crenshaw				P.O. #:				ANALYSIS REQUEST <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>																				
Address: 2617 West Marland				Company: Mewbourne																								
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																								
Phone #: (575) 264-9884 Fax #:				Address:																								
Project #: 20984 Project Owner: Mewbourne				City:																								
Project Name: Pavo Frio Flow Line				State: Zip:																								
Project Location: 32.744072, -104.115361				Phone #:																								
Sampler Name: Patrick Muniez				Fax #:																								
FOR LAB USE ONLY						MATRIX		PRESERV.	SAMPLING																			
Lab I.D.	Sample I.D.	(GRAB OR COMPOUND)	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE: ICE / COOL OTHER :	DATE	TIME																
1	FL 79 @ 3'	C	1			X				X	9/23/24		X	X	X													
2	FL 81 @ 2'	C	1			X				X	9/23/24		X	X	X													
3	FL 104 @ 6'	C	1			X				X	9/23/24		X	X	X													
4	FL 114 @ 6.5'	C	1			X				X	9/23/24		X	X	X													
5	FL 115 @ 6.5'	C	1			X				X	9/23/24		X	X	X													
6	FL 116 @ 6.5'	C	1			X				X	9/23/24		X	X	X													
7	EW 9	C	1			X				X	9/23/24		X	X	X													
8	EW 10	C	1			X				X	9/23/24		X	X	X													
9	EW 11	C	1			X				X	9/23/24		X	X	X													
10	EW 12	C	1			X				X	9/23/24		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: [Signature]		Date: 9-23-24	Received By: [Signature]		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:																							
Time: 1442		Date: [Blank]		Received By: [Signature]		All Results are emailed. Please provide Email address: pm@etechenv.com																						
Time: [Blank]		Date: [Blank]		Received By: [Signature]		REMARKS:																						
Delivered By: (Circle One)		Observed Temp. °C: -8-2°C	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) AD		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C																			
Sampler - UPS - Bus - Other:		Corrected Temp. °C: -8-8°C	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Thermometer ID #140 Correction Factor -0.6°C		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Corrected Temp. °C																			

FORM-006 R 3.5 08/05/24 † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

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

Page 2 of 5

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				Page 2 of 5																																	
Project Manager: Lance Crenshaw				P.O. #:				ANALYSIS REQUEST																																	
Address: 2617 West Marland				Company: Mewbourne																																					
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																																					
Phone #: (575) 264-9884 Fax #:				Address:																																					
Project #: 20984 Project Owner: Mewbourne				City:																																					
Project Name: Pavo Frio Flow Line				State: Zip:																																					
Project Location: 32.744072, -104.115361				Phone #:																																					
Sampler Name: Patrick Muniez				Fax #:																																					
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING		Chloride		TPH (8015M)		BTEX (8021B)																									
Lab I.D.		Sample I.D.		(GRAB OR COMPOUND)		# CONTAINERS		GROUNDWATER		WASTEWATER																		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:	
H245755				C 1								X								X		9/23/24				X		X		X											
11		EW 13		C 1								X								X		9/23/24				X		X		X											
12		EW 14		C 1								X								X		9/23/24				X		X		X											
13		EW 15		C 1								X								X		9/23/24				X		X		X											
14		EW 16		C 1								X								X		9/23/24				X		X		X											
15		EW 17		C 1								X								X		9/23/24				X		X		X											
16		EW 18		C 1								X								X		9/23/24				X		X		X											
17		EW 19		C 1								X								X		9/23/24				X		X		X											
18		EW 20		C 1								X								X		9/23/24				X		X		X											
19		EW 21		C 1								X								X		9/23/24				X		X		X											
20		EW 22		C 1								X								X		9/23/24				X		X		X											
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Relinquished By: [Signature]				Date: 9-23-24				Received By: [Signature]				Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:																													
Time: 1442				Date: 9-23-24				Time: 1442				All Results are emailed. Please provide Email address: pm@etechenv.com																													
Relinquished By: [Signature]				Date: 9-23-24				Received By: [Signature]				REMARKS:																													
Time: 1442				Date: 9-23-24				Time: 1442																																	
Delivered By: (Circle One)				Observed Temp. °C -8.2°C				Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No				CHECKED BY: (Initials) [Signature]				Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input 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																					
Sampler - UPS - Bus - Other:				Corrected Temp. °C -8.8°C												Thermometer ID #140 Correction Factor -0.6°C																									

FORM-006 R 3.5 08/05/24 † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

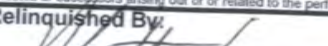


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Page 3 of 5

[illegible]

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Relinquished By: _____ Date: _____

Relinquished By: 		Date: 9/23/21	Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Time: 1442	Received By:		All Results are emailed. Please provide Email address: pm@etechnv.com	
Delivered By: (Circle One)		Date:	REMARKS:			
Time:						
Sampler - UPS - Bus - Other:		Observed Temp. °C: -8.2 °C	Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) 	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition: Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No
		Corrected Temp. °C: -8.8 °C	<input type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #140	Observed Temp. °C
					Correction Factor -0.6 °C	Corrected Temp. °C

101 East Marland, Hobbs, NM 88240
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 5

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 #: 20984

Project Owner: Mewbourne

Project Name: Pavo Frio Flow Line

Project Location: 32.744072, -104.115361

Sampler Name: Patrick Muniez

BILL TO

P.O. #:

Company: Mewbourne

Attn: Connor Walker

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

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

Chloride

TPH (8015M)

BTEX (8021B)

4245755

31
32
33
34
35
36
37
38
39
40

WW 12
WW 13
WW 14
WW 15
WW 16
WW 17
WW 18
WW 19
WW 20
WW 21

C 1
C 1
C 1
C 1
C 1
C 1
C 1
C 1
C 1
C 1

1
1
1
1
1
1
1
1
1
1

X
X
X
X
X
X
X
X
X
X

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Relinquished By:

Date: 9/23/24
Time: 1442
Date:
Time:

Received By:

Received By: *Apawos*

Verbal Result: ☐ 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 = 8.3°C

Corrected Temp. °C = 8.8°C

Sample Condition
Cool Intact
☐ Yes ☐ No
☐ No ☐ No

CHECKED BY:
(Initials)

AP

Turnaround Time:

Standard ☒ Rush

Thermometer ID #140
Correction Factor -0.6°C

Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C
☐ Yes ☐ No
☐ No ☐ No Corrected Temp. °C



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

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 #: 20984

Project Owner: Mewbourne

Project Name: Pavo Frio Flow Line

Project Location: 32.744072, -104.115361

Sampler Name: Patrick Muniez

BILL TO

P.O. #:

Company: Mewbourne

Attn: Connor Walker

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Chloride

TPH (8015M)

BTEX (8021B)

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
C	1		X					X			9/23/24
C	1		X					X			9/23/24
C	1		X					X			9/23/24
C	1		X					X			9/23/24
C	1		X					X			9/23/24
C	1		X					X			9/23/24
C	1		X					X			9/23/24
C	1		X					X			9/23/24

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Relinquished By:

Date: 9/23/24

Time: 1442

Date:

Time:

Received By:

Received By:

Verbal Result: ☐ 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 -8.2°C

Corrected Temp. °C -8.8°C

Sample Condition

Cool Intact ☐ Yes ☐ No

☐ Yes ☐ No

CHECKED BY: (Initials)

PD

Turnaround Time:

Standard ☒ Rush ☐

Thermometer ID #140
Correction Factor -0.6°C

Bacteria (only) Sample Condition

Cool Intact ☐ Yes ☐ No

☐ Yes ☐ No

Observed Temp. °C

Corrected Temp. °C

FORM-006 R 3.5 08/05/24

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

October 01, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PAVO FRIO FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 09/25/24 14:48.

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: 09/25/2024
 Reported: 10/01/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 90 @ 7' (H245827-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2024	ND	2.00	100	2.00	7.23	
Toluene*	<0.050	0.050	09/27/2024	ND	2.07	103	2.00	7.53	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.09	104	2.00	7.00	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.44	107	6.00	7.17	
Total BTX	<0.300	0.300	09/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2024	ND	198	99.0	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	181	90.4	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.7 % 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: 09/25/2024
 Reported: 10/01/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 91 @ 7' (H245827-02)

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	09/27/2024	ND	2.00	100	2.00	7.23	
Toluene*	<0.050	0.050	09/27/2024	ND	2.07	103	2.00	7.53	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.09	104	2.00	7.00	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.44	107	6.00	7.17	
Total BTEX	<0.300	0.300	09/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2024	ND	198	99.0	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	181	90.4	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/25/2024
 Reported: 10/01/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 117 @ 3' (H245827-03)

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	09/27/2024	ND	2.00	100	2.00	7.23	
Toluene*	<0.050	0.050	09/27/2024	ND	2.07	103	2.00	7.53	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.09	104	2.00	7.00	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.44	107	6.00	7.17	
Total BTEx	<0.300	0.300	09/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	240	16.0	09/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2024	ND	198	99.0	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	181	90.4	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.3 % 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: 09/25/2024
 Reported: 10/01/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 118 @ 3' (H245827-04)

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	09/27/2024	ND	2.00	100	2.00	7.23	
Toluene*	<0.050	0.050	09/27/2024	ND	2.07	103	2.00	7.53	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.09	104	2.00	7.00	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.44	107	6.00	7.17	
Total BTEX	<0.300	0.300	09/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2024	ND	198	99.0	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	181	90.4	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 80.0 % 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: 09/25/2024
 Reported: 10/01/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 119 @ 3' (H245827-05)

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	09/27/2024	ND	2.00	100	2.00	7.23		
Toluene*	<0.050	0.050	09/27/2024	ND	2.07	103	2.00	7.53		
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.09	104	2.00	7.00		
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.44	107	6.00	7.17		
Total BTEx	<0.300	0.300	09/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	160	16.0	09/26/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2024	ND	198	99.0	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	181	90.4	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.5 % 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: 09/25/2024
 Reported: 10/01/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 120 @ 3' (H245827-06)

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	09/27/2024	ND	2.00	100	2.00	7.23	
Toluene*	<0.050	0.050	09/27/2024	ND	2.07	103	2.00	7.53	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.09	104	2.00	7.00	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.44	107	6.00	7.17	
Total BTEX	<0.300	0.300	09/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	09/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2024	ND	198	99.0	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	181	90.4	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.5 % 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: 09/25/2024
 Reported: 10/01/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 121 @ 3' (H245827-07)

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	09/27/2024	ND	2.00	100	2.00	7.23	
Toluene*	<0.050	0.050	09/27/2024	ND	2.07	103	2.00	7.53	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.09	104	2.00	7.00	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.44	107	6.00	7.17	
Total BTEX	<0.300	0.300	09/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/26/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2024	ND	198	99.0	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	181	90.4	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 75.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.1 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 09/25/2024
 Reported: 10/01/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 122 @ 3' (H245827-08)

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	09/27/2024	ND	2.00	99.9	2.00	4.42	
Toluene*	<0.050	0.050	09/27/2024	ND	1.97	98.6	2.00	3.33	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.05	103	2.00	2.07	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.16	103	6.00	1.61	
Total BTEX	<0.300	0.300	09/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/26/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2024	ND	198	99.0	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	181	90.4	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.8 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 09/25/2024
 Reported: 10/01/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: NW 6 (H245827-09)

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	09/27/2024	ND	2.00	99.9	2.00	4.42	
Toluene*	<0.050	0.050	09/27/2024	ND	1.97	98.6	2.00	3.33	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.05	103	2.00	2.07	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.16	103	6.00	1.61	
Total BTEX	<0.300	0.300	09/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/26/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2024	ND	198	99.0	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	181	90.4	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 75.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.3 % 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: 09/25/2024
 Reported: 10/01/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: NW 7 (H245827-10)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2024	ND	2.00	99.9	2.00	4.42	
Toluene*	<0.050	0.050	09/27/2024	ND	1.97	98.6	2.00	3.33	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.05	103	2.00	2.07	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.16	103	6.00	1.61	
Total BTX	<0.300	0.300	09/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	144	16.0	09/26/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2024	ND	198	99.0	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	181	90.4	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.0 % 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: 09/25/2024
 Reported: 10/01/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 11 (H245827-11)

BTX 8021B			mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/27/2024	ND	2.00	99.9	2.00	4.42		
Toluene*	<0.050	0.050	09/27/2024	ND	1.97	98.6	2.00	3.33		
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.05	103	2.00	2.07		
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.16	103	6.00	1.61		
Total BTX	<0.300	0.300	09/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2024	ND	198	99.0	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	181	90.4	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.2 % 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: 09/25/2024
 Reported: 10/01/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 12 (H245827-12)

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	09/27/2024	ND	2.00	99.9	2.00	4.42	
Toluene*	<0.050	0.050	09/27/2024	ND	1.97	98.6	2.00	3.33	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.05	103	2.00	2.07	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.16	103	6.00	1.61	
Total BTEX	<0.300	0.300	09/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/26/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2024	ND	198	99.0	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	181	90.4	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 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: 09/25/2024
 Reported: 10/01/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 7 (H245827-13)

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	09/27/2024	ND	2.00	99.9	2.00	4.42	
Toluene*	<0.050	0.050	09/27/2024	ND	1.97	98.6	2.00	3.33	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.05	103	2.00	2.07	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.16	103	6.00	1.61	
Total BTEX	<0.300	0.300	09/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/26/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2024	ND	198	99.0	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	181	90.4	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.8 % 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

Notes and Definitions

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

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

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

Page 1 of 2

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST															
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>															
Address: 2617 West Marland				Company: Mewbourne																			
City: Hobbs		State: NM		Zip: 88240		Attn: Connor Walker																	
Phone #: (575) 264-9884		Fax #:		Address:		City:																	
Project #: 20984		Project Owner: Mewbourne		State:		Zip:																	
Project Name: Pavo Frio Flow Line		Phone #:		Fax #:																			
Project Location: 32.744072, -104.115361																							
Sampler Name: Patrick Muniez																							
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	
1215827				C 1				X				X		9/24/24				X		X		X	
1		FL 90 @ 7'		C 1				X				X		9/24/24				X		X		X	
2		FL 91 @ 7'		C 1				X				X		9/24/24				X		X		X	
3		FL 117 @ 3'		C 1				X				X		9/24/24				X		X		X	
4		FL 118 @ 3'		C 1				X				X		9/24/24				X		X		X	
5		FL 119 @ 3'		C 1				X				X		9/24/24				X		X		X	
6		FL 120 @ 3'		C 1				X				X		9/24/24				X		X		X	
7		FL 121 @ 3'		C 1				X				X		9/24/24				X		X		X	
8		FL 122 @ 3'		C 1				X				X		9/24/24				X		X		X	
9		NW 6		C 1				X				X		9/24/24				X		X		X	
10		NW 7		C 1				X				X		9/24/24				X		X		X	

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Relinquished By:		Date: 9/25/24		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: 1448						All Results are emailed. Please provide Email address:		pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:			
Time:									
Delivered By: (Circle One)		Observed Temp. °C 11.0		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials)		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C 11.6		<input type="checkbox"/> Yes <input type="checkbox"/> No				Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
				<input type="checkbox"/> Yes <input type="checkbox"/> No				Observed Temp. °C	
								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

Page 2 of 2

Page 17 of 17

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																							
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																							
Address: 2617 West Marland				Company: Mewbourne																											
City: Hobbs		State: NM		Zip: 88240		Attn: Connor Walker																									
Phone #: (575) 264-9884		Fax #:		Address:		City:																									
Project #: 20984		Project Owner: Mewbourne		State:		Zip:																									
Project Name: Pavo Frio Flow Line		Phone #:		Fax #:																											
Project Location: 32.744072, -104.115361																															
Sampler Name: Patrick Muniez																															
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																							
Lab I.D.		Sample I.D.		(GRAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME			
11		EW 11		C		1				X										X		9/24/24				X		X		X	
12		EW 12		C		1				X										X		9/24/24				X		X		X	
13		SW 7		C		1				X										X		9/24/24				X		X		X	

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Relinquished By:		Date: 9-25-24		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: 1448						All Results are emailed. Please provide Email address: pm@etechenv.com			
Relinquished By:		Date:		Received By:		REMARKS:			
Time:									
Delivered By: (Circle One)		Observed Temp. °C: -11.0		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials)		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: -11.0		<input type="checkbox"/> Yes <input type="checkbox"/> No				Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
								Observed Temp. °C: <input type="checkbox"/> Yes <input type="checkbox"/> No	
								Corrected Temp. °C: <input type="checkbox"/> Yes <input type="checkbox"/> No	
								Thermometer ID #140	
								Correction Factor -0.6°C	



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

October 02, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PAVO FRIO FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 10/01/24 8:27.

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, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/01/2024
 Reported: 10/02/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 15 B (H245939-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2024	ND	2.18	109	2.00	3.01	
Toluene*	<0.050	0.050	10/01/2024	ND	2.13	107	2.00	3.38	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.20	110	2.00	3.62	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.58	110	6.00	3.79	
Total BTX	<0.300	0.300	10/01/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	10/01/2024	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	10/01/2024	ND	205	103	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	183	91.5	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 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: 10/01/2024
 Reported: 10/02/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 17 B (H245939-02)

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	10/01/2024	ND	2.18	109	2.00	3.01		
Toluene*	<0.050	0.050	10/01/2024	ND	2.13	107	2.00	3.38		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.20	110	2.00	3.62		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.58	110	6.00	3.79		
Total BTEX	<0.300	0.300	10/01/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	10/01/2024	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	10/01/2024	ND	205	103	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	183	91.5	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.0 % 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: 10/01/2024
 Reported: 10/02/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 26 B (H245939-03)

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	10/01/2024	ND	2.18	109	2.00	3.01		
Toluene*	<0.050	0.050	10/01/2024	ND	2.13	107	2.00	3.38		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.20	110	2.00	3.62		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.58	110	6.00	3.79		
Total BTEX	<0.300	0.300	10/01/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	10/01/2024	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	10/01/2024	ND	205	103	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	183	91.5	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 100 % 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: 10/01/2024
 Reported: 10/02/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 09/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 10 B (H245939-04)

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	10/01/2024	ND	2.18	109	2.00	3.01		
Toluene*	<0.050	0.050	10/01/2024	ND	2.13	107	2.00	3.38		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.20	110	2.00	3.62		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.58	110	6.00	3.79		
Total BTEX	<0.300	0.300	10/01/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	10/01/2024	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	10/01/2024	ND	205	103	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	183	91.5	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 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

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

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

Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

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 #: 20984

Project Owner: Mewbourne

Project Name: Pavo Frio Flow Line

Project Location: 32.744072, -104.115361

Sampler Name: Patrick Muniez

BILL TO

P.O. #:

Company: Mewbourne

Attn: Connor Walker

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Chloride

TPH (8015M)

BTEX (8021B)

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

PRESERV.

SAMPLING

DATE TIME

1 EW 15 B
2 EW 17 B
3 EW 26 B
4 WW 10 B

C C C C

1 1 1 1

X X X X

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Relinquished By:

Date: 10-1-24
Time: 0827

Relinquished By:

Date:
Time:

Received By:

Received By:

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:

pm@etechenv.com

REMARKS:

24 HOUR RUSH

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C -13
Corrected Temp. °C -13.6

Sample Condition
Cool Intact
☐ Yes ☒ No
Moist Intact
☐ Yes ☒ No

CHECKED BY:
(Initials)

Turnaround Time:

Standard
Rush ☒

Thermometer ID #140
Correction Factor -0.6°C

Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C
☐ Yes ☒ No
Moist Intact Corrected Temp. °C
☐ Yes ☒ No



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

October 07, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PAVO FRIO FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 10/04/24 10:04.

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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/04/2024
 Reported: 10/07/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 10/04/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: EW 17 C (H246050-01)

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	10/05/2024	ND	2.13	107	2.00	3.90	
Toluene*	<0.050	0.050	10/05/2024	ND	2.16	108	2.00	4.84	
Ethylbenzene*	<0.050	0.050	10/05/2024	ND	2.18	109	2.00	5.37	
Total Xylenes*	<0.150	0.150	10/05/2024	ND	6.60	110	6.00	5.29	
Total BTEX	<0.300	0.300	10/05/2024	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	16.0	16.0	10/07/2024	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	10/05/2024	ND	196	97.8	200	2.80	
DRO >C10-C28*	<10.0	10.0	10/05/2024	ND	199	99.5	200	0.272	
EXT DRO >C28-C36	<10.0	10.0	10/05/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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*=Accredited Analyte

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

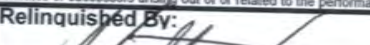


Celey D. Keene, Lab Director/Quality Manager

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

Page 1 of 1

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Relinquished By: 		Date: 10/4/24	Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 1004					All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:	Received By:		REMARKS:	
Time:					24 HOUR RUSH	
Delivered By: (Circle One)	Observed Temp. °C 10.0	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input 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	
Sampler - UPS - Bus - Other:	Corrected Temp. °C 0.4				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No
				Thermometer ID #140 Correction Factor -0.6°C	Corrected Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No	

FORM-006 R 3.5 08/05/24



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

October 17, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PAVO FRIO FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 10/11/24 14:53.

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, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/11/2024
 Reported: 10/17/2024
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 10/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: STOCKTON PIT (H246217-01)

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	10/16/2024	ND	2.02	101	2.00	1.83	
Toluene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	2.84	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.08	104	2.00	4.63	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.33	105	6.00	4.79	
Total BTEX	<0.300	0.300	10/16/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	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	10/15/2024	ND	217	108	200	3.13	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	209	105	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 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

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*=Accredited Analyte

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

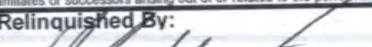


Celey D. Keene, Lab Director/Quality Manager

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

Page 1 of 1

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Relinquished By: 		Date: 10-11-24 Time: 1453	Received By: 	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: pm@etechenv.com
Relinquished By:		Date: Time:	Received By:	REMARKS:
Delivered By: (Circle One)	Observed Temp. °C: 7.6°C	Sample Condition: Cool Intact	CHECKED BY: (Initials) 	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) Sample Condition: Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C: -8.2	<input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		Thermometer ID #140 Correction Factor -0.6°C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C



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

January 28, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PAVO FRIO FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/27/25 8:13.

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.

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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: 01/27/2025
 Reported: 01/28/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 123 @ 4' (H250456-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	1.82	91.2	2.00	7.25	
Toluene*	<0.050	0.050	01/27/2025	ND	1.91	95.3	2.00	7.21	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.83	91.3	2.00	7.38	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.35	89.2	6.00	7.42	
Total BTX	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	01/27/2025	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	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 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: 01/27/2025
 Reported: 01/28/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 124 @ 4' (H250456-02)

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	01/27/2025	ND	1.82	91.2	2.00	7.25		
Toluene*	<0.050	0.050	01/27/2025	ND	1.91	95.3	2.00	7.21		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.83	91.3	2.00	7.38		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.35	89.2	6.00	7.42		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/27/2025	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	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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: 01/27/2025
 Reported: 01/28/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 125 @ 4' (H250456-03)

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	01/27/2025	ND	1.82	91.2	2.00	7.25		
Toluene*	<0.050	0.050	01/27/2025	ND	1.91	95.3	2.00	7.21		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.83	91.3	2.00	7.38		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.35	89.2	6.00	7.42		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/27/2025	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	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 90.9 % 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: 01/27/2025
 Reported: 01/28/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 126 @ 4' (H250456-04)

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	01/27/2025	ND	1.82	91.2	2.00	7.25		
Toluene*	<0.050	0.050	01/27/2025	ND	1.91	95.3	2.00	7.21		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.83	91.3	2.00	7.38		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.35	89.2	6.00	7.42		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/27/2025	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	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 95.7 % 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: 01/27/2025
 Reported: 01/28/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 127 @ 4' (H250456-05)

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	01/27/2025	ND	1.82	91.2	2.00	7.25		
Toluene*	<0.050	0.050	01/27/2025	ND	1.91	95.3	2.00	7.21		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.83	91.3	2.00	7.38		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.35	89.2	6.00	7.42		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/27/2025	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	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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: 01/27/2025
 Reported: 01/28/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 128 @ 4' (H250456-06)

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	01/27/2025	ND	1.82	91.2	2.00	7.25		
Toluene*	<0.050	0.050	01/27/2025	ND	1.91	95.3	2.00	7.21		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.83	91.3	2.00	7.38		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.35	89.2	6.00	7.42		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/27/2025	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	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 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: 01/27/2025
 Reported: 01/28/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 129 @ 4' (H250456-07)

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	01/27/2025	ND	1.82	91.2	2.00	7.25		
Toluene*	<0.050	0.050	01/27/2025	ND	1.91	95.3	2.00	7.21		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.83	91.3	2.00	7.38		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.35	89.2	6.00	7.42		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/27/2025	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	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 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: 01/27/2025
 Reported: 01/28/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 130 @ 4' (H250456-08)

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	01/27/2025	ND	1.82	91.2	2.00	7.25		
Toluene*	<0.050	0.050	01/27/2025	ND	1.91	95.3	2.00	7.21		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.83	91.3	2.00	7.38		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.35	89.2	6.00	7.42		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 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	16.0	16.0	01/27/2025	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	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 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: 01/27/2025
 Reported: 01/28/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 131 @ 4' (H250456-09)

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	01/27/2025	ND	2.00	100	2.00	6.35	
Toluene*	<0.050	0.050	01/27/2025	ND	2.02	101	2.00	8.93	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.01	100	2.00	9.80	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.14	102	6.00	8.63	
Total BTEX	<0.300	0.300	01/27/2025	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	16.0	16.0	01/27/2025	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	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 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: 01/27/2025
 Reported: 01/28/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 132 @ 4' (H250456-10)

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	01/27/2025	ND	2.00	100	2.00	6.35		
Toluene*	<0.050	0.050	01/27/2025	ND	2.02	101	2.00	8.93		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.01	100	2.00	9.80		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.14	102	6.00	8.63		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	01/27/2025	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	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 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: 01/27/2025
 Reported: 01/28/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 133 @ 4' (H250456-11)

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	01/27/2025	ND	2.00	100	2.00	6.35		
Toluene*	<0.050	0.050	01/27/2025	ND	2.02	101	2.00	8.93		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.01	100	2.00	9.80		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.14	102	6.00	8.63		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	192	16.0	01/27/2025	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	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 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: 01/27/2025
 Reported: 01/28/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 134 @ 4' (H250456-12)

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	01/27/2025	ND	2.00	100	2.00	6.35		
Toluene*	<0.050	0.050	01/27/2025	ND	2.02	101	2.00	8.93		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.01	100	2.00	9.80		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.14	102	6.00	8.63		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	144	16.0	01/27/2025	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	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 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: 01/27/2025
 Reported: 01/28/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 135 @ 4' (H250456-13)

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	01/27/2025	ND	2.00	100	2.00	6.35		
Toluene*	<0.050	0.050	01/27/2025	ND	2.02	101	2.00	8.93		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.01	100	2.00	9.80		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.14	102	6.00	8.63		
Total BTEX	<0.300	0.300	01/27/2025	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	112	16.0	01/27/2025	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	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 88.3 % 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: 01/27/2025
 Reported: 01/28/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 136 @ 4' (H250456-14)

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	01/27/2025	ND	2.00	100	2.00	6.35		
Toluene*	<0.050	0.050	01/27/2025	ND	2.02	101	2.00	8.93		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.01	100	2.00	9.80		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.14	102	6.00	8.63		
Total BTEX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/27/2025	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	01/27/2025	ND	200	99.9	200	2.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	194	97.1	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 137 @ 4' (H250456-15)

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	01/27/2025	ND	2.00	100	2.00	6.35		
Toluene*	<0.050	0.050	01/27/2025	ND	2.02	101	2.00	8.93		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.01	100	2.00	9.80		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.14	102	6.00	8.63		
Total BTEX	<0.300	0.300	01/27/2025	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	16.0	16.0	01/27/2025	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	01/27/2025	ND	200	99.9	200	2.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	194	97.1	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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: 01/27/2025
 Reported: 01/28/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 138 @ 4' (H250456-16)

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	01/27/2025	ND	2.00	100	2.00	6.35		
Toluene*	<0.050	0.050	01/27/2025	ND	2.02	101	2.00	8.93		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.01	100	2.00	9.80		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.14	102	6.00	8.63		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	16.0	16.0	01/27/2025	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	01/27/2025	ND	200	99.9	200	2.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	194	97.1	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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: 01/27/2025
 Reported: 01/28/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/24/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 139 @ 4' (H250456-17)

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	01/27/2025	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	01/27/2025	ND	2.28	114	2.00	2.19	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.52	126	2.00	3.13	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.76	129	6.00	2.61	
Total BTEX	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 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	16.0	16.0	01/27/2025	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	01/27/2025	ND	200	99.9	200	2.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	194	97.1	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

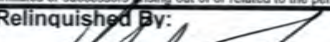


CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 2

Page 20 of 21

[illegible]

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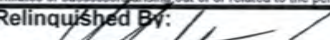


Relinquished By: 		Date: 1-27-25		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 0813		Time:				All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
Time:		Time:				24 HOUR RUSH - Bill analytical charges to Mewbourne c/o Connor Walker and rush charges to Etech c/o Lance Crenshaw.	
Delivered By: (Circle One)		Observed Temp. °C -1.6		Sample Condition Cool Intact		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C -2.2		CHECKED BY: (Initials) 		Thermometer ID #140 Correction Factor -0.6°C	
						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	

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

Page 2 of 2

[illegible]

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Relinquished By: 		Date: 1-27-25		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: 0813				All Results are emailed. Please provide Email address: pm@etechnv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:				24 HOUR RUSH - Bill analytical charges to Mewbourne c/o Connor Walker and rush charges to Etech c/o Lance Crenshaw.	
Delivered By: (Circle One)		Observed Temp. °C -1.6		Sample Condition Cool Intact		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C -2.2		CHECKED BY: (Initials) 		Thermometer ID #140 Correction Factor -0.6°C	
						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	



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

February 03, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PAVO FRIO FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/29/25 15:10.

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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/29/2025
 Reported: 02/03/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 123 @ 5' (H250538-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2025	ND	2.15	107	2.00	1.65	
Toluene*	<0.050	0.050	01/31/2025	ND	2.19	110	2.00	5.53	
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.20	110	2.00	7.11	
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.37	106	6.00	9.55	
Total BTX	<0.300	0.300	01/31/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	16.0	16.0	01/30/2025	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	01/30/2025	ND	198	99.0	200	0.0859	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	191	95.7	200	0.243	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 102 % 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: 01/29/2025
 Reported: 02/03/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 140 @ 4' (H250538-02)

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	01/31/2025	ND	2.15	107	2.00	1.65		
Toluene*	<0.050	0.050	01/31/2025	ND	2.19	110	2.00	5.53		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.20	110	2.00	7.11		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.37	106	6.00	9.55		
Total BTEX	<0.300	0.300	01/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	01/30/2025	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	01/30/2025	ND	198	99.0	200	0.0859	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	191	95.7	200	0.243	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 100 % 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: 01/29/2025
 Reported: 02/03/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 141 @ 4' (H250538-03)

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	01/31/2025	ND	2.20	110	2.00	0.283		
Toluene*	<0.050	0.050	01/31/2025	ND	2.07	103	2.00	1.45		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.29	115	2.00	0.00210		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.92	115	6.00	0.888		
Total BTEx	<0.300	0.300	01/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	16.0	16.0	01/30/2025	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	01/30/2025	ND	198	99.0	200	0.0859	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	191	95.7	200	0.243	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 104 % 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: 01/29/2025
 Reported: 02/03/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 142 @ 4' (H250538-04)

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	01/31/2025	ND	2.20	110	2.00	0.283	
Toluene*	<0.050	0.050	01/31/2025	ND	2.07	103	2.00	1.45	
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.29	115	2.00	0.00210	
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.92	115	6.00	0.888	
Total BTEX	<0.300	0.300	01/31/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	16.0	16.0	01/30/2025	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	01/30/2025	ND	198	99.0	200	0.0859	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	191	95.7	200	0.243	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 99.6 % 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: 01/29/2025
 Reported: 02/03/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 143 @ 4' (H250538-05)

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	01/31/2025	ND	2.20	110	2.00	0.283		
Toluene*	<0.050	0.050	01/31/2025	ND	2.07	103	2.00	1.45		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.29	115	2.00	0.00210		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.92	115	6.00	0.888		
Total BTEX	<0.300	0.300	01/31/2025	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	16.0	16.0	01/30/2025	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	01/30/2025	ND	198	99.0	200	0.0859	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	191	95.7	200	0.243	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 102 % 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: 01/29/2025
 Reported: 02/03/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 144 @ 4' (H250538-06)

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	01/31/2025	ND	2.20	110	2.00	0.283	
Toluene*	<0.050	0.050	01/31/2025	ND	2.07	103	2.00	1.45	
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.29	115	2.00	0.00210	
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.92	115	6.00	0.888	
Total BTEX	<0.300	0.300	01/31/2025	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	240	16.0	01/30/2025	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	01/30/2025	ND	198	99.0	200	0.0859	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	191	95.7	200	0.243	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 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: 01/29/2025
 Reported: 02/03/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 145 @ 4' (H250538-07)

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	01/31/2025	ND	2.20	110	2.00	0.283		
Toluene*	<0.050	0.050	01/31/2025	ND	2.07	103	2.00	1.45		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.29	115	2.00	0.00210		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.92	115	6.00	0.888		
Total BTEX	<0.300	0.300	01/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	16.0	16.0	01/30/2025	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	01/30/2025	ND	198	99.0	200	0.0859	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	191	95.7	200	0.243	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.9 % 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: 01/29/2025
 Reported: 02/03/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 146 @ 4' (H250538-08)

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	01/31/2025	ND	2.20	110	2.00	0.283		
Toluene*	<0.050	0.050	01/31/2025	ND	2.07	103	2.00	1.45		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.29	115	2.00	0.00210		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.92	115	6.00	0.888		
Total BTEX	<0.300	0.300	01/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	16.0	16.0	01/30/2025	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	01/30/2025	ND	178	89.0	200	6.57	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	212	106	200	6.92	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 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: 01/29/2025
 Reported: 02/03/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 147 @ 4' (H250538-09)

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	01/31/2025	ND	2.20	110	2.00	0.283		
Toluene*	<0.050	0.050	01/31/2025	ND	2.07	103	2.00	1.45		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.29	115	2.00	0.00210		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.92	115	6.00	0.888		
Total BTEX	<0.300	0.300	01/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	32.0	16.0	01/30/2025	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	01/30/2025	ND	178	89.0	200	6.57	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	212	106	200	6.92	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 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: 01/29/2025
 Reported: 02/03/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 148 @ 4' (H250538-10)

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	01/31/2025	ND	2.20	110	2.00	0.283	
Toluene*	<0.050	0.050	01/31/2025	ND	2.07	103	2.00	1.45	
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.29	115	2.00	0.00210	
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.92	115	6.00	0.888	
Total BTEX	<0.300	0.300	01/31/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	01/30/2025	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	01/30/2025	ND	178	89.0	200	6.57	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	212	106	200	6.92	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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: 01/29/2025
 Reported: 02/03/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 149 @ 4' (H250538-11)

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	01/31/2025	ND	2.20	110	2.00	0.283		
Toluene*	<0.050	0.050	01/31/2025	ND	2.07	103	2.00	1.45		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.29	115	2.00	0.00210		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.92	115	6.00	0.888		
Total BTEX	<0.300	0.300	01/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	01/30/2025	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	01/30/2025	ND	178	89.0	200	6.57	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	212	106	200	6.92	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 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: 01/29/2025
 Reported: 02/03/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 150 @ 4' (H250538-12)

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	01/31/2025	ND	2.20	110	2.00	0.283		
Toluene*	<0.050	0.050	01/31/2025	ND	2.07	103	2.00	1.45		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.29	115	2.00	0.00210		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.92	115	6.00	0.888		
Total BTEX	<0.300	0.300	01/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	16.0	16.0	01/30/2025	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	01/30/2025	ND	178	89.0	200	6.57	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	212	106	200	6.92	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 109 % 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: 01/29/2025
 Reported: 02/03/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 151 @ 4' (H250538-13)

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	01/31/2025	ND	2.20	110	2.00	0.283		
Toluene*	<0.050	0.050	01/31/2025	ND	2.07	103	2.00	1.45		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.29	115	2.00	0.00210		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.92	115	6.00	0.888		
Total BTEX	<0.300	0.300	01/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	16.0	16.0	01/30/2025	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	01/30/2025	ND	178	89.0	200	6.57	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	212	106	200	6.92	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 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: 01/29/2025
 Reported: 02/03/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 152 @ 4' (H250538-14)

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	01/31/2025	ND	2.20	110	2.00	0.283		
Toluene*	<0.050	0.050	01/31/2025	ND	2.07	103	2.00	1.45		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.29	115	2.00	0.00210		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.92	115	6.00	0.888		
Total BTEX	<0.300	0.300	01/31/2025	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	48.0	16.0	01/30/2025	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	01/30/2025	ND	178	89.0	200	6.57	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	212	106	200	6.92	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 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: 01/29/2025
 Reported: 02/03/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 153 @ 4' (H250538-15)

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	01/31/2025	ND	2.20	110	2.00	0.283		
Toluene*	<0.050	0.050	01/31/2025	ND	2.07	103	2.00	1.45		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.29	115	2.00	0.00210		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.92	115	6.00	0.888		
Total BTEX	<0.300	0.300	01/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	01/30/2025	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	01/30/2025	ND	178	89.0	200	6.57	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	212	106	200	6.92	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 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: 01/29/2025
 Reported: 02/03/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 154 @ 4' (H250538-16)

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	01/31/2025	ND	2.20	110	2.00	0.283		
Toluene*	<0.050	0.050	01/31/2025	ND	2.07	103	2.00	1.45		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.29	115	2.00	0.00210		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.92	115	6.00	0.888		
Total BTEX	<0.300	0.300	01/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	16.0	16.0	01/30/2025	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	01/30/2025	ND	178	89.0	200	6.57	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	212	106	200	6.92	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 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: 01/29/2025
 Reported: 02/03/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 155 @ 4' (H250538-17)

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	01/31/2025	ND	2.20	110	2.00	0.283		
Toluene*	<0.050	0.050	01/31/2025	ND	2.07	103	2.00	1.45		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.29	115	2.00	0.00210		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.92	115	6.00	0.888		
Total BTEX	<0.300	0.300	01/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	64.0	16.0	01/30/2025	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	01/30/2025	ND	178	89.0	200	6.57	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	212	106	200	6.92	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 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: 01/29/2025
 Reported: 02/03/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 156 @ 4' (H250538-18)

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	01/31/2025	ND	2.20	110	2.00	0.283		
Toluene*	<0.050	0.050	01/31/2025	ND	2.07	103	2.00	1.45		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.29	115	2.00	0.00210		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.92	115	6.00	0.888		
Total BTEX	<0.300	0.300	01/31/2025	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	16.0	16.0	01/30/2025	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	01/30/2025	ND	178	89.0	200	6.57	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	212	106	200	6.92	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 108 % 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: 01/29/2025
 Reported: 02/03/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 157 @ 4' (H250538-19)

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	01/31/2025	ND	2.20	110	2.00	0.283		
Toluene*	<0.050	0.050	01/31/2025	ND	2.07	103	2.00	1.45		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.29	115	2.00	0.00210		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.92	115	6.00	0.888		
Total BTEX	<0.300	0.300	01/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	01/30/2025	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	01/30/2025	ND	178	89.0	200	6.57	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	212	106	200	6.92	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 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

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

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A handwritten signature in cursive script, appearing to read "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

Page 1 of 2

Page 22 of 23

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Address: 2617 West Marland				Company: Mewbourne																									
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																									
Phone #: (575) 264-9884 Fax #:				Address:																									
Project #: 20984 Project Owner: Mewbourne				City:																									
Project Name: Pavo Frio Flow Line				State: Zip:																									
Project Location: 32.744072, -104.115361				Phone #:																									
Sampler Name: Dominic Casarez				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	
H2SD538				C 1																									
1		FL 123 @ 5'		C 1																									
2		FL 140 @ 4'		C 1																									
3		FL 141 @ 4'		C 1																									
4		FL 142 @ 4'		C 1																									
5		FL 143 @ 4'		C 1																									
6		FL 144 @ 4'		C 1																									
7		FL 145 @ 4'		C 1																									
8		FL 146 @ 4'		C 1																									
9		FL 147 @ 4'		C 1																									
10		FL 148 @ 4'		C 1																									

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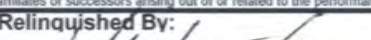
Relinquished By:		Date: 1/27/25		Received By:		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:	
Time: 1510						All Results are emailed. Please provide Email address: pm@etechnv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
Time:							
Delivered By: (Circle One)		Observed Temp. °C: -7.1		Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: -7.7		Cool <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
						Thermometer ID #140 Correction Factor -0.6°C	
						Bacteria (only) Sample Condition: Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	

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

Page 2 of 2

[illegible]

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Relinquished By: 		Date: 12-25 Time: 1510		Received By: S. Rodriguez		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:					
Delivered By: (Circle One)		Observed Temp. °C -7.1		Sample Condition Cool Intact		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C -7.7		CHECKED BY: (Initials) SR		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	
						Thermometer ID #140 Correction Factor -0.6°C	
						<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	



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

April 07, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PAVO FRIO FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/01/25 14:48.

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, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 123 @ 6.5' (H251938-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2025	ND	1.96	97.9	2.00	2.31	
Toluene*	<0.050	0.050	04/03/2025	ND	2.15	107	2.00	2.70	
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.43	122	2.00	4.94	
Total Xylenes*	<0.150	0.150	04/03/2025	ND	7.47	125	6.00	5.74	
Total BTX	<0.300	0.300	04/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 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	32.0	16.0	04/02/2025	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	04/02/2025	ND	209	104	200	0.506	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	206	103	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 99.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 124 @ 6.5' (H251938-02)

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	04/03/2025	ND	1.96	97.9	2.00	2.31		
Toluene*	<0.050	0.050	04/03/2025	ND	2.15	107	2.00	2.70		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.43	122	2.00	4.94		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	7.47	125	6.00	5.74		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	04/02/2025	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	04/02/2025	ND	209	104	200	0.506	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	206	103	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 125 @ 6' (H251938-03)

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	04/03/2025	ND	1.96	97.9	2.00	2.31	
Toluene*	<0.050	0.050	04/03/2025	ND	2.15	107	2.00	2.70	
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.43	122	2.00	4.94	
Total Xylenes*	<0.150	0.150	04/03/2025	ND	7.47	125	6.00	5.74	
Total BTEX	<0.300	0.300	04/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 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	04/02/2025	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	04/02/2025	ND	209	104	200	0.506	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	206	103	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 126 @ 6' (H251938-04)

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	04/03/2025	ND	1.96	97.9	2.00	2.31	
Toluene*	<0.050	0.050	04/03/2025	ND	2.15	107	2.00	2.70	
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.43	122	2.00	4.94	
Total Xylenes*	<0.150	0.150	04/03/2025	ND	7.47	125	6.00	5.74	
Total BTEX	<0.300	0.300	04/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	04/02/2025	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	04/02/2025	ND	209	104	200	0.506	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	206	103	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 111 % 44.4-145

Surrogate: 1-Chlorooctadecane 108 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 127 @ 6.5' (H251938-05)

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	04/03/2025	ND	1.96	97.9	2.00	2.31		
Toluene*	<0.050	0.050	04/03/2025	ND	2.15	107	2.00	2.70		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.43	122	2.00	4.94		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	7.47	125	6.00	5.74		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	04/02/2025	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	04/02/2025	ND	209	104	200	2.71	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	193	96.4	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 95.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.3 % 40.6-153

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Analytical Results For:

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

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 128 @ 6' (H251938-06)

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	04/03/2025	ND	1.96	97.9	2.00	2.31		
Toluene*	<0.050	0.050	04/03/2025	ND	2.15	107	2.00	2.70		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.43	122	2.00	4.94		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	7.47	125	6.00	5.74		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	04/02/2025	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	04/02/2025	ND	209	104	200	2.71	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	193	96.4	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.2 % 40.6-153

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Analytical Results For:

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

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 129 @ 6' (H251938-07)

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	04/03/2025	ND	1.96	97.9	2.00	2.31		
Toluene*	<0.050	0.050	04/03/2025	ND	2.15	107	2.00	2.70		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.43	122	2.00	4.94		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	7.47	125	6.00	5.74		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	04/02/2025	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	04/02/2025	ND	209	104	200	2.71	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	193	96.4	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 143 @ 5.5' (H251938-08)

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	04/03/2025	ND	1.96	97.9	2.00	2.31		
Toluene*	<0.050	0.050	04/03/2025	ND	2.15	107	2.00	2.70		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.43	122	2.00	4.94		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	7.47	125	6.00	5.74		
Total BTEX	<0.300	0.300	04/03/2025	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	112	16.0	04/02/2025	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	04/02/2025	ND	209	104	200	2.71	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	193	96.4	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 99.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.5 % 40.6-153

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Analytical Results For:

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

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 143 @ 7' (H251938-09)

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	04/03/2025	ND	1.96	97.9	2.00	2.31		
Toluene*	<0.050	0.050	04/03/2025	ND	2.15	107	2.00	2.70		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.43	122	2.00	4.94		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	7.47	125	6.00	5.74		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	04/02/2025	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	04/02/2025	ND	209	104	200	2.71	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	193	96.4	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.1 % 40.6-153

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Analytical Results For:

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

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 145 @ 7' (H251938-10)

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	04/03/2025	ND	1.90	95.2	2.00	9.97	QM-07	
Toluene*	<0.050	0.050	04/03/2025	ND	1.96	97.9	2.00	7.60		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	1.97	98.4	2.00	6.72	QM-07	
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.26	104	6.00	6.79		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	16.0	16.0	04/02/2025	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	04/02/2025	ND	209	104	200	2.71	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	193	96.4	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.2 % 40.6-153

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Analytical Results For:

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

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 147 @ 5' (H251938-11)

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	04/03/2025	ND	1.90	95.2	2.00	9.97		
Toluene*	<0.050	0.050	04/03/2025	ND	1.96	97.9	2.00	7.60		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	1.97	98.4	2.00	6.72		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.26	104	6.00	6.79		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	04/02/2025	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	04/02/2025	ND	209	104	200	2.71	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	193	96.4	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 148 @ 5.5' (H251938-12)

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	04/03/2025	ND	1.90	95.2	2.00	9.97		
Toluene*	<0.050	0.050	04/03/2025	ND	1.96	97.9	2.00	7.60		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	1.97	98.4	2.00	6.72		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.26	104	6.00	6.79		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	04/02/2025	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	04/02/2025	ND	209	104	200	2.71	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	193	96.4	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 99.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.8 % 40.6-153

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Analytical Results For:

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

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 149 @ 6' (H251938-13)

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	04/03/2025	ND	1.90	95.2	2.00	9.97		
Toluene*	<0.050	0.050	04/03/2025	ND	1.96	97.9	2.00	7.60		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	1.97	98.4	2.00	6.72		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.26	104	6.00	6.79		
Total BTEx	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	04/02/2025	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	04/02/2025	ND	209	104	200	2.71	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	193	96.4	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 84.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 151 @ 6' (H251938-14)

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	04/03/2025	ND	1.90	95.2	2.00	9.97		
Toluene*	<0.050	0.050	04/03/2025	ND	1.96	97.9	2.00	7.60		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	1.97	98.4	2.00	6.72		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.26	104	6.00	6.79		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	04/02/2025	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	04/02/2025	ND	209	104	200	2.71	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	193	96.4	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.3 % 40.6-153

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Analytical Results For:

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

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 153 @ 6' (H251938-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2025	ND	1.90	95.2	2.00	9.97		
Toluene*	<0.050	0.050	04/03/2025	ND	1.96	97.9	2.00	7.60		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	1.97	98.4	2.00	6.72		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.26	104	6.00	6.79		
Total BTEX	<0.300	0.300	04/03/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/02/2025	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	04/02/2025	ND	209	104	200	2.71	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	193	96.4	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 96.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 154 @ 6' (H251938-16)

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	04/03/2025	ND	1.90	95.2	2.00	9.97		
Toluene*	<0.050	0.050	04/03/2025	ND	1.96	97.9	2.00	7.60		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	1.97	98.4	2.00	6.72		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.26	104	6.00	6.79		
Total BTEX	<0.300	0.300	04/03/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/02/2025	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	04/02/2025	ND	209	104	200	2.71	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	193	96.4	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 99.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.0 % 40.6-153

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Analytical Results For:

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

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 155 @ 6' (H251938-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2025	ND	1.90	95.2	2.00	9.97		
Toluene*	<0.050	0.050	04/03/2025	ND	1.96	97.9	2.00	7.60		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	1.97	98.4	2.00	6.72		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.26	104	6.00	6.79		
Total BTEx	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	04/02/2025	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	04/02/2025	ND	209	104	200	2.71	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	193	96.4	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 98.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.7 % 40.6-153

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Analytical Results For:

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

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 156 @ 6' (H251938-18)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2025	ND	1.90	95.2	2.00	9.97	
Toluene*	<0.050	0.050	04/03/2025	ND	1.96	97.9	2.00	7.60	
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	1.97	98.4	2.00	6.72	
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.26	104	6.00	6.79	
Total BTEX	<0.300	0.300	04/03/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	04/02/2025	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	04/02/2025	ND	209	104	200	2.71	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	193	96.4	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 98.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.6 % 40.6-153

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Analytical Results For:

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

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 157 @ 5.5' (H251938-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2025	ND	1.90	95.2	2.00	9.97		
Toluene*	<0.050	0.050	04/03/2025	ND	1.96	97.9	2.00	7.60		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	1.97	98.4	2.00	6.72		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.26	104	6.00	6.79		
Total BTEx	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	16.0	16.0	04/02/2025	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	04/02/2025	ND	209	104	200	2.71	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	193	96.4	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.0 % 40.6-153

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Analytical Results For:

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

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 158 @ 6.5' (H251938-20)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2025	ND	1.90	95.2	2.00	9.97		
Toluene*	<0.050	0.050	04/03/2025	ND	1.96	97.9	2.00	7.60		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	1.97	98.4	2.00	6.72		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.26	104	6.00	6.79		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/02/2025	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	04/02/2025	ND	209	104	200	2.71	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	193	96.4	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 93.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.5 % 40.6-153

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Analytical Results For:

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

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 159 @ 7' (H251938-21)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2025	ND	1.90	95.2	2.00	9.97		
Toluene*	<0.050	0.050	04/03/2025	ND	1.96	97.9	2.00	7.60		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	1.97	98.4	2.00	6.72		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.26	104	6.00	6.79		
Total BTX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	04/02/2025	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	04/02/2025	ND	209	104	200	2.71	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	193	96.4	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 95.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.4 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 160 @ 6' (H251938-22)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2025	ND	1.90	95.2	2.00	9.97	
Toluene*	<0.050	0.050	04/03/2025	ND	1.96	97.9	2.00	7.60	
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	1.97	98.4	2.00	6.72	
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.26	104	6.00	6.79	
Total BTEX	<0.300	0.300	04/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/02/2025	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	04/02/2025	ND	209	104	200	2.71	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	193	96.4	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 82.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



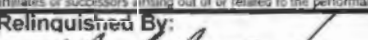
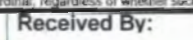

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 3

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 #: 20984 Project Owner: Mewbourne				City:																
Project Name: Pavo Frio Flow Line				State: Zip:																
Project Location: 32.744072, -104.115361				Phone #:																
Sampler Name: Martin Sepulveda				Fax #:																
FOR LAB USE ONLY						PRESERV.		SAMPLING		Chloride	TPH (8015M)	BTEX (8021B)								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX																DATE
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :								
H251938	FL 123 @ 6.5'	G	1		X					X			4/1/25		X	X	X			
	FL 124 @ 6.5'	G	1		X					X			4/1/25		X	X	X			
	FL 125 @ 6'	G	1		X					X			4/1/25		X	X	X			
	FL 126 @ 6'	G	1		X					X			4/1/25		X	X	X			
	FL 127 @ 6.5'	G	1		X					X			4/1/25		X	X	X			
	FL 128 @ 6'	G	1		X					X			4/1/25		X	X	X			
	FL 129 @ 6'	G	1		X					X			4/1/25		X	X	X			
	FL 143 @ 5.5'	G	1		X					X			4/1/25		X	X	X			
	FL 143 @ 7'	G	1		X					X			4/1/25		X	X	X			
	FL 145 @ 7'	G	1		X					X			4/1/25		X	X	X			

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Relinquished By: 		Date: 4-1-25	Received By: 	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
Time: 1448				All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:	Received By:	REMARKS:	
		Time:			
Delivered By: (Circle One)	Observed Temp. °C: -7.1	Sample Condition: Cool <input type="checkbox"/> Intact <input type="checkbox"/>	CHECKED BY: (Initials) 	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition: Cool <input type="checkbox"/> Intact <input type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C: -4.8	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #140	<input type="checkbox"/> Yes <input type="checkbox"/> No
				Correction Factor: +0.3	<input type="checkbox"/> Yes <input type="checkbox"/> No
					Observed Temp. °C
					Corrected Temp. °C

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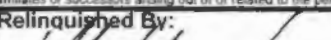
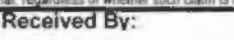

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 3

Page 26 of 27

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Relinquished By: 		Date: 4-1-35		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
		Time: 1448				All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:					
Delivered By: (Circle One)		Observed Temp. °C: -7.1	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/>	CHECKED BY: (Initials): 	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	Bacteria (only) Sample Condition: Cool <input type="checkbox"/> Intact <input type="checkbox"/>	
Sampler - UPS - Bus - Other:	Corrected Temp. °C: -0.8		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #140	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	
					Correction Factor: -0.8°C to -0.3°C	Observed Temp. °C: Corrected Temp. °C:	

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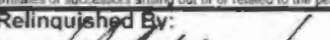
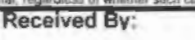

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 3 of 3

Page 27 of 27

Company Name:	Etech Environmental & Safety Solutions, Inc.	BILL TO	ANALYSIS REQUEST																													
Project Manager:	Lance Crenshaw	P.O. #:																														
Address:	2617 West Marland	Company:	Mewbourne																													
City:	Hobbs State: NM Zip: 88240	Attn:	Connor Walker																													
Phone #:	(575) 264-9884 Fax #:	Address:																														
Project #:	20984 Project Owner:	City:	Mewbourne																													
Project Name:	Pavo Frio Flow Line	State:	Zip:																													
Project Location:	32.744072, -104.115361	Phone #:																														
Sampler Name:	Martin Sepulveda	Fax #:																														
FOR LAB USE ONLY		(GRAB OR COMPOSITE)	# CONTAINERS	MATRIX					PRESERVATION		SAMPLING		Chloride	TPH (8015M)	BTEX (8021B)																	
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE	ICE / COOL	OTHER :																DATE	TIME			
HA51938 21	FL 159 @ 7'	G	1		X				X			4/1/25		X	X	X																
22	FL 160 @ 6'	G	1		X				X			4/1/25		X	X	X																
				</																												

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Relinquished By: 		Date: 4-1-25 Time: 1448		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date: Time:		Received By:		REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: -7.1 Corrected Temp. °C: -4.8		Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: (Initials) 	
				Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #140 Correction Factor -0.6°C +0.3°C		Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C Corrected Temp. °C	



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

April 10, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PAVO FRIO FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/07/25 14:51.

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: 04/07/2025
 Reported: 04/10/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/04/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 133 @ 2.5' (H252055-01)

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	04/09/2025	ND	2.02	101	2.00	4.29		
Toluene*	<0.050	0.050	04/09/2025	ND	2.08	104	2.00	1.83		
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	2.02	101	2.00	0.314		
Total Xylenes*	<0.150	0.150	04/09/2025	ND	5.98	99.7	6.00	0.730		
Total BTEx	<0.300	0.300	04/09/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	04/08/2025	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	04/08/2025	ND	211	105	200	3.07	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	203	101	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/07/2025
 Reported: 04/10/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/04/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 134 @ 2' (H252055-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2025	ND	2.02	101	2.00	4.29	
Toluene*	<0.050	0.050	04/09/2025	ND	2.08	104	2.00	1.83	
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	2.02	101	2.00	0.314	
Total Xylenes*	<0.150	0.150	04/09/2025	ND	5.98	99.7	6.00	0.730	
Total BTX	<0.300	0.300	04/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	80.0	16.0	04/08/2025	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	04/08/2025	ND	211	105	200	3.07	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	203	101	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane 99.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/07/2025
 Reported: 04/10/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/04/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 162 @ 4' (H252055-03)

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	04/09/2025	ND	1.86	93.0	2.00	6.62		
Toluene*	<0.050	0.050	04/09/2025	ND	2.10	105	2.00	10.7		
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	2.33	116	2.00	12.4		
Total Xylenes*	<0.150	0.150	04/09/2025	ND	7.08	118	6.00	12.4		
Total BTEx	<0.300	0.300	04/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	04/08/2025	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	04/08/2025	ND	211	105	200	3.07	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	203	101	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane 96.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.8 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/07/2025
 Reported: 04/10/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/04/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 163 @ 4.5' (H252055-04)

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	04/09/2025	ND	1.86	93.0	2.00	6.62		
Toluene*	<0.050	0.050	04/09/2025	ND	2.10	105	2.00	10.7		
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	2.33	116	2.00	12.4		
Total Xylenes*	<0.150	0.150	04/09/2025	ND	7.08	118	6.00	12.4		
Total BTEx	<0.300	0.300	04/09/2025	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	64.0	16.0	04/08/2025	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	04/08/2025	ND	211	105	200	3.07	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	203	101	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane 112 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/07/2025
 Reported: 04/10/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/04/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 163 @ 6' (H252055-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2025	ND	1.86	93.0	2.00	6.62		
Toluene*	<0.050	0.050	04/09/2025	ND	2.10	105	2.00	10.7		
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	2.33	116	2.00	12.4		
Total Xylenes*	<0.150	0.150	04/09/2025	ND	7.08	118	6.00	12.4		
Total BTX	<0.300	0.300	04/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	04/08/2025	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	04/08/2025	ND	211	105	200	3.07	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	203	101	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane 109 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/07/2025
 Reported: 04/10/2025
 Project Name: PAVO FRIO FLOW LINE
 Project Number: 20984
 Project Location: MEWBOURNE 32.744072,-104.115361

Sampling Date: 04/04/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 161 @ 4' (H252055-06)

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	04/09/2025	ND	1.86	93.0	2.00	6.62		
Toluene*	<0.050	0.050	04/09/2025	ND	2.10	105	2.00	10.7		
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	2.33	116	2.00	12.4		
Total Xylenes*	<0.150	0.150	04/09/2025	ND	7.08	118	6.00	12.4		
Total BTEx	<0.300	0.300	04/09/2025	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	32.0	16.0	04/08/2025	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	04/08/2025	ND	211	105	200	3.07	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	203	101	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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

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

Page 1 of 1

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																							
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																							
Address: 2617 West Marland				Company: Mewbourne																											
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																											
Phone #: (575) 264-9884 Fax #:				Address:																											
Project #: 20984 Project Owner: Mewbourne				City:																											
Project Name: Pavo Frio Flow Line				State: Zip:																											
Project Location: 32.744072, -104.115361				Phone #:																											
Sampler Name: Addison Elston				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			
485-2005				G		1						X								X		4/4/25				X		X		X	
1		FL 133 @ 2.5'		G		1						X								X		4/4/25				X		X		X	
2		FL 134 @ 2'		G		1						X								X		4/4/25				X		X		X	
3		FL 162 @ 4'		G		1						X								X		4/4/25				X		X		X	
4		FL 163 @ 4.5'		G		1						X								X		4/4/25				X		X		X	
5		FL 163 @ 6'		G		1						X								X		4/4/25				X		X		X	
6		FL 167 @ 4'		G		1						X								X		4/4/25				X		X		X	

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Relinquished By:		Date: 4-7-25		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 1451						All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
Time:							
Delivered By: (Circle One)		Observed Temp. °C: 4.12		Sample Condition		CHECKED BY: (initials)	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: -0.82		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
						Thermometer ID #140	
						Correction Factor: -0.5°C	
						Bacteria (only) Sample Condition	
						Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
						Observed Temp. °C	
						Corrected Temp. °C	

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: 381410
Date: Friday, September 6, 2024 4:14:11 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#) nAPP2424249029.

The sampling event is expected to take place:

When: 09/11/2024 @ 07:30

Where: L-18-18S-29E 0 FNL 0 FEL (32.74355,-104.11546)

Additional Information: Patrick Muniez
575.552.6982

Additional Instructions: From the southeastern intersection of NM-360 and Cowtown Rd (32.754691, -104.106244), head SW on Cowtown Rd for 0.97 mi, then SE for 0.37 mi, then S for 0.04 mi, then W for 0.01 mi to arrive at the Pavo Frio Flow Line release area (32.743845, -104.115364).

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: 381413
Date: Friday, September 6, 2024 4:18:34 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#) nAPP2424249029.

The sampling event is expected to take place:

When: 09/12/2024 @ 07:30

Where: L-18-18S-29E 0 FNL 0 FEL (32.74355,-104.11546)

Additional Information: Patrick Muniez
575.552.6982

Additional Instructions: From the southeastern intersection of NM-360 and Cowtown Rd (32.754691, -104.106244), head SW on Cowtown Rd for 0.97 mi, then SE for 0.37 mi, then S for 0.04 mi, then W for 0.01 mi to arrive at the Pavo Frio Flow Line release area (32.743845, -104.115364).

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: 381414
Date: Friday, September 6, 2024 4:21:24 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#) nAPP2424249029.

The sampling event is expected to take place:

When: 09/13/2024 @ 07:30

Where: L-18-18S-29E 0 FNL 0 FEL (32.74355,-104.11546)

Additional Information: Patrick Muniez
575.552.6982

Additional Instructions: From the southeastern intersection of NM-360 and Cowtown Rd (32.754691, -104.106244), head SW on Cowtown Rd for 0.97 mi, then SE for 0.37 mi, then S for 0.04 mi, then W for 0.01 mi to arrive at the Pavo Frio Flow Line release area (32.743845, -104.115364).

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: 381434
Date: Friday, September 6, 2024 5:19:04 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#) nAPP2424249029.

The sampling event is expected to take place:

When: 09/16/2024 @ 07:30

Where: L-18-18S-29E 0 FNL 0 FEL (32.74355,-104.11546)

Additional Information: Patrick Muniez
575.552.6982

Additional Instructions: From the southeastern intersection of NM-360 and Cowtown Rd (32.754691, -104.106244), head SW on Cowtown Rd for 0.97 mi, then SE for 0.37 mi, then S for 0.04 mi, then W for 0.01 mi to arrive at the Pavo Frio Flow Line release area (32.743845, -104.115364).

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: 381435
Date: Friday, September 6, 2024 5:21:04 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#) nAPP2424249029.

The sampling event is expected to take place:

When: 09/17/2024 @ 07:30

Where: L-18-18S-29E 0 FNL 0 FEL (32.74355,-104.11546)

Additional Information: Patrick Muniez
575.552.6982

Additional Instructions: From the southeastern intersection of NM-360 and Cowtown Rd (32.754691, -104.106244), head SW on Cowtown Rd for 0.97 mi, then SE for 0.37 mi, then S for 0.04 mi, then W for 0.01 mi to arrive at the Pavo Frio Flow Line release area (32.743845, -104.115364).

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: 381436
Date: Friday, September 6, 2024 5:23:30 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#) nAPP2424249029.

The sampling event is expected to take place:

When: 09/18/2024 @ 07:30

Where: L-18-18S-29E 0 FNL 0 FEL (32.74355,-104.11546)

Additional Information: Patrick Muniez
575.552.6982

Additional Instructions: From the southeastern intersection of NM-360 and Cowtown Rd (32.754691, -104.106244), head SW on Cowtown Rd for 0.97 mi, then SE for 0.37 mi, then S for 0.04 mi, then W for 0.01 mi to arrive at the Pavo Frio Flow Line release area (32.743845, -104.115364).

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: 381437
Date: Friday, September 6, 2024 5:25:29 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#) nAPP2424249029.

The sampling event is expected to take place:

When: 09/19/2024 @ 07:30

Where: L-18-18S-29E 0 FNL 0 FEL (32.74355,-104.11546)

Additional Information: Patrick Muniez
575.552.6982

Additional Instructions: From the southeastern intersection of NM-360 and Cowtown Rd (32.754691, -104.106244), head SW on Cowtown Rd for 0.97 mi, then SE for 0.37 mi, then S for 0.04 mi, then W for 0.01 mi to arrive at the Pavo Frio Flow Line release area (32.743845, -104.115364).

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: 381438
Date: Friday, September 6, 2024 5:27:50 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#) nAPP2424249029.

The sampling event is expected to take place:

When: 09/20/2024 @ 07:30

Where: L-18-18S-29E 0 FNL 0 FEL (32.74355,-104.11546)

Additional Information: Patrick Muniez
575.552.6982

Additional Instructions: From the southeastern intersection of NM-360 and Cowtown Rd (32.754691, -104.106244), head SW on Cowtown Rd for 0.97 mi, then SE for 0.37 mi, then S for 0.04 mi, then W for 0.01 mi to arrive at the Pavo Frio Flow Line release area (32.743845, -104.115364).

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: 385518
Date: Friday, September 20, 2024 5:03:59 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#) nAPP2424249029.

The sampling event is expected to take place:

When: 09/24/2024 @ 07:30

Where: L-18-18S-29E 0 FNL 0 FEL (32.74355,-104.11546)

Additional Information: Jeff Broom
575.605.6908

Additional Instructions: From the southeastern intersection of NM-360 and Cowtown Rd (32.754691, -104.106244), head SW on Cowtown Rd for 0.97 mi, then SE for 0.37 mi, then S for 0.04 mi, then W for 0.01 mi to arrive at the Pavo Frio Flow Line release area (32.743845, -104.115364).

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: 385512
Date: Friday, September 20, 2024 4:56:36 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#) nAPP2424249029.

The sampling event is expected to take place:

When: 09/25/2024 @ 07:30

Where: L-18-18S-29E 0 FNL 0 FEL (32.74355,-104.11546)

Additional Information: Jeff Broom
575.605.6908

Additional Instructions: From the southeastern intersection of NM-360 and Cowtown Rd (32.754691, -104.106244), head SW on Cowtown Rd for 0.97 mi, then SE for 0.37 mi, then S for 0.04 mi, then W for 0.01 mi to arrive at the Pavo Frio Flow Line release area (32.743845, -104.115364).

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: 385513
Date: Friday, September 20, 2024 4:57:56 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#) nAPP2424249029.

The sampling event is expected to take place:

When: 09/26/2024 @ 07:30

Where: L-18-18S-29E 0 FNL 0 FEL (32.74355,-104.11546)

Additional Information: Jeff Broom
575.605.6908

Additional Instructions: From the southeastern intersection of NM-360 and Cowtown Rd (32.754691, -104.106244), head SW on Cowtown Rd for 0.97 mi, then SE for 0.37 mi, then S for 0.04 mi, then W for 0.01 mi to arrive at the Pavo Frio Flow Line release area (32.743845, -104.115364).

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: 385515
Date: Friday, September 20, 2024 4:59:48 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#) nAPP2424249029.

The sampling event is expected to take place:

When: 09/27/2024 @ 07:30

Where: L-18-18S-29E 0 FNL 0 FEL (32.74355,-104.11546)

Additional Information: Jeff Broom
575.605.6908

Additional Instructions: From the southeastern intersection of NM-360 and Cowtown Rd (32.754691, -104.106244), head SW on Cowtown Rd for 0.97 mi, then SE for 0.37 mi, then S for 0.04 mi, then W for 0.01 mi to arrive at the Pavo Frio Flow Line release area (32.743845, -104.115364).

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: 389168
Date: Wednesday, October 2, 2024 10:37:24 AM

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#) nAPP2424249029.

The sampling event is expected to take place:

When: 10/04/2024 @ 07:30

Where: L-18-18S-29E 0 FNL 0 FEL (32.74355,-104.11546)

Additional Information: Jeff Broom
575.605.6908

Additional Instructions: From the southeastern intersection of NM-360 and Cowtown Rd (32.754691, -104.106244), head SW on Cowtown Rd for 0.97 mi, then SE for 0.37 mi, then S for 0.04 mi, then W for 0.01 mi to arrive at the Pavo Frio Flow Line release area (32.743845, -104.115364).

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 <OCDOnline@state.nm.us>

Sent: Wednesday, November 27, 2024 11:54:04 AM

To: Connor Walker <cwalker@mewbourne.com>

Subject: [EXT] The Oil Conservation Division (OCD) has rejected the application, Application ID: 403175

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2424249029, for the following reasons:

- **Remediation closure denied for the following:**
- **1) Samples were not collected pursuant to 19.15.29.12D.(1)(c) NMAC. The estimated surface area that was remediated was 31,460 square feet which should have resulted in the collection of at least 157 base samples.**
- **2) Samples were collected on 9/23/24 without proper sampling notification. Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D(1)(a) NMAC. Failure to provide proper sampling notice is a compliance issue and the OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D(1)(a) NMAC.**
- **3) The Site Characterization distances for the following need updated when you resubmit your report: a) Significant watercourse-the release pathway ends in an arroyo which is a significant watercourse b) Figure 2A shows Wetlands a couple hundred feet away c) Figure 2B shows Karst as Low**
- **4) Area of TT2 was excavated to 3' however delineation samples show chlorides above closure criteria down to 5'. This needs to be addressed before closure can be approved.**
- **5) In the area of TT2, how was WW1 and EW1 collected at 0-7 feet if FL 8 was collected at 3' and FL 5-7 were collected at 4'? Explain in resubmittal.**
- **Resubmit remediation closure report to the OCD by 2/25/25.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 403175.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Shelly Wells
Environmental Specialist-A
505-469-7520
Shelly.Wells@emnrd.nm.gov

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: 422132
Date: Friday, January 17, 2025 11:43:03 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#) nAPP2424249029.

The sampling event is expected to take place:

When: 01/22/2025 @ 07:30

Where: L-18-18S-29E 0 FNL 0 FEL (32.74355,-104.11546)

Additional Information: Dominic Casarez, 432-813-1036

Additional Instructions: From the southeastern intersection of NM-360 and Cowtown Rd (32.754691, -104.106244), head SW on Cowtown Rd for 0.97 mi, then SE for 0.37 mi, then S for 0.04 mi, then W for 0.01 mi to arrive at the Pavo Frio Flow Line release area (32.743845, -104.115364).

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: 422133
Date: Friday, January 17, 2025 11:46:27 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#) nAPP2424249029.

The sampling event is expected to take place:

When: 01/23/2025 @ 07:30

Where: L-18-18S-29E 0 FNL 0 FEL (32.74355,-104.11546)

Additional Information: Dominic Casarez, 432-813-1036

Additional Instructions: From the southeastern intersection of NM-360 and Cowtown Rd (32.754691, -104.106244), head SW on Cowtown Rd for 0.97 mi, then SE for 0.37 mi, then S for 0.04 mi, then W for 0.01 mi to arrive at the Pavo Frio Flow Line release area (32.743845, -104.115364).

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: 422134
Date: Friday, January 17, 2025 11:48:49 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#) nAPP2424249029.

The sampling event is expected to take place:

When: 01/24/2025 @ 07:30

Where: L-18-18S-29E 0 FNL 0 FEL (32.74355,-104.11546)

Additional Information: Dominic Casarez, 432-813-1036

Additional Instructions: From the southeastern intersection of NM-360 and Cowtown Rd (32.754691, -104.106244), head SW on Cowtown Rd for 0.97 mi, then SE for 0.37 mi, then S for 0.04 mi, then W for 0.01 mi to arrive at the Pavo Frio Flow Line release area (32.743845, -104.115364).

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: 422135
Date: Friday, January 17, 2025 11:52:24 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#) nAPP2424249029.

The sampling event is expected to take place:

When: 01/27/2025 @ 07:30

Where: L-18-18S-29E 0 FNL 0 FEL (32.74355,-104.11546)

Additional Information: Dominic Casarez, 432-813-1036

Additional Instructions: From the southeastern intersection of NM-360 and Cowtown Rd (32.754691, -104.106244), head SW on Cowtown Rd for 0.97 mi, then SE for 0.37 mi, then S for 0.04 mi, then W for 0.01 mi to arrive at the Pavo Frio Flow Line release area (32.743845, -104.115364).

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 <OCDOnline@state.nm.us>

Sent: Thursday, March 6, 2025 1:55 PM

To: Connor Walker <cwalker@mewbourne.com>

Subject: [EXT] The Oil Conservation Division (OCD) has rejected the application, Application ID: 435304

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2424249029, for the following reasons:

- **Remediation closure denied for the following:**
- **The 35 additional base samples that were collected in January 2025, were collected at incorrect depths based on the data previously provided to the OCD. Only 7 of these samples were collected at or near the correct depths-130, 131, 132, 136-139. 28 more samples still need to be collected at the proper depths. The area between TT5 and the northernmost point of excavation should be explored as well as around the area of TT2. Prior to sample collection, email a proposed sampling plan, including the locations and depths and proposed method of collection. They may be grab samples. Submit a C-141N per 19.15.29.12(D) NMAC prior to sample collection.**
- **Under the Site Characterization portion of the C-141 application the following distances still need to be updated: Significant watercourse is 0 feet. You can see that TT2 is in the wetland (riverine) by looking at Figure 3B. In addition, distance to a wetland still needs updated.**
- **Submit updated remediation closure report to the OCD by 5/5/25.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 435304.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Shelly Wells
Environmental Specialist-A
505-469-7520
Shelly.Wells@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: [Wells, Shelly, EMNRD](#)
To: [Ben Arguijo](#)
Cc: [Connor Walker](#); [Jeff Broom](#); [Lance Crenshaw](#)
Subject: RE: [EXTERNAL] RE: [EXT] The Oil Conservation Division (OCD) has rejected the application, Application ID: 435304
Date: Monday, March 24, 2025 9:19:13 AM
Attachments: [image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)

Good morning Ben,

I will give you the previously collected samples, numbered 140-142 however sample 143 is right where the excavation was between 3 and 7' depth so that one is out. 25 more samples still need collected. OCD would still like to see 3 more samples gathered between 52 and 125 AND 3 more samples between 101 and 87, at the proper depths. These areas have not been sufficiently sampled yet. Remove the suggested samples of 135, 144, 146, 150 and 152 in order to add in the 6 requested samples. Resubmit an updated sample proposal to me via email containing the 25 proposed sample locations prior to collection.

Sincerely,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Ben Arguijo <bena@etechenv.com>
Sent: Wednesday, March 19, 2025 4:01 PM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Connor Walker <cwalker@mewbourne.com>; Jeff Broom <jbroom@mewbourne.com>; Lance Crenshaw <lance@etechenv.com>
Subject: [EXTERNAL] RE: [EXT] The Oil Conservation Division (OCD) has rejected the application, Application ID: 435304

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

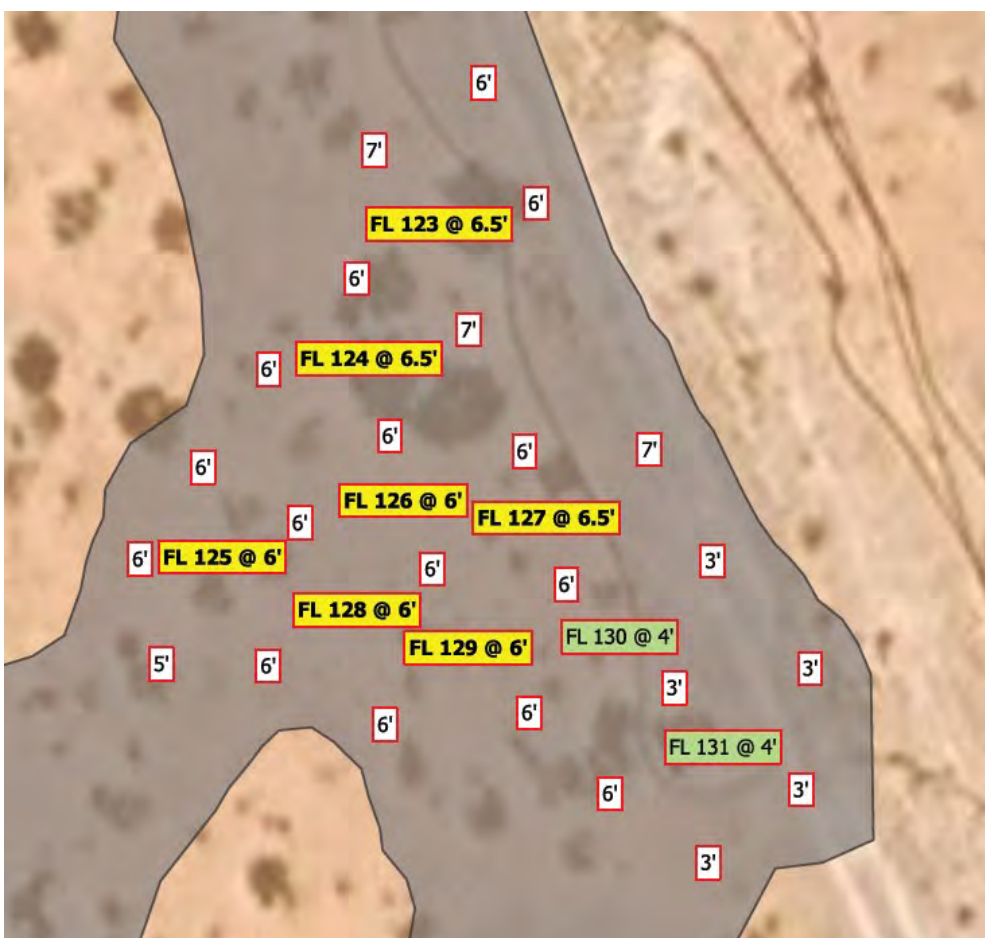
Shelly,

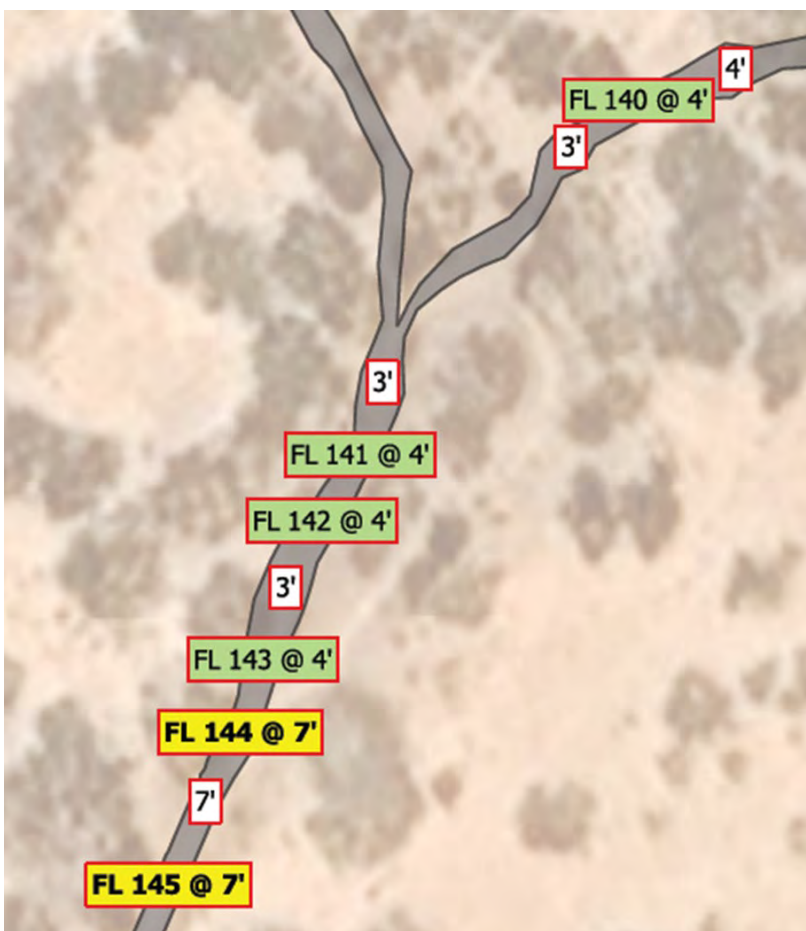
Per your request, attached please find a pair of “Proposed Resample Location” maps (Figures 4A and 4B) depicting the locations and proposed depths of the required resamples for Mewbourne’s Pavo Frio to Westall SWD Line release (NMOCD Incident ID #nAPP2424249029). Etech, on behalf of Mewbourne, proposes to collect grab samples at the locations and depths highlighted in yellow in Figures 4A and 4B.

The depths of the pertinent, surrounding samples collected in 2024 are labeled in white with a red border. I have left off the names of those samples in an attempt to reduce clutter and enhance readability. However, the names and locations of all samples collected to date are depicted in the attached “Sample Location” maps (Figures 3A and 3B).

The labels of the 7 samples you mentioned that were collected at or near the correct depths (i.e., FL 130, 131, 132, and 136-139) are highlighted in green. I have extended that list to include sample locations FL 140, 141, 142, and 143, as they appear to meet the same criteria as the locations you listed, based on the depths of the surrounding samples.

Below are a couple of screenshots to help clarify what I have attempted to describe above:

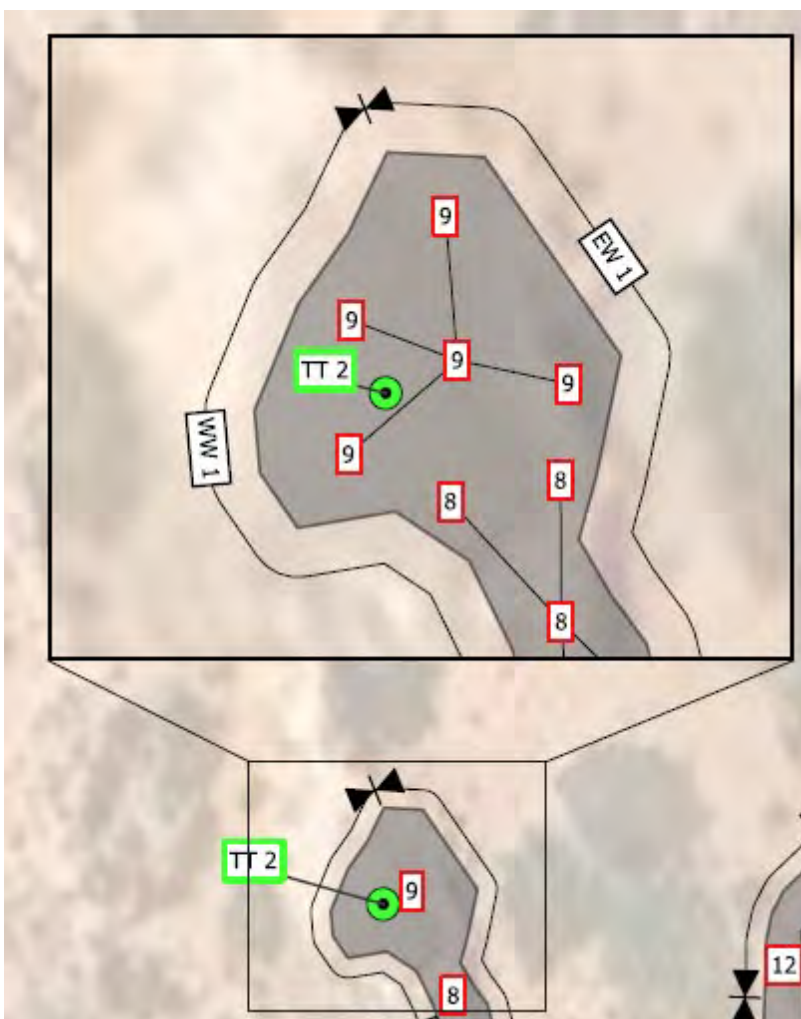




As previously mentioned, Etech proposes to collect grab samples at the locations highlighted in yellow in Figures 4A and 4B. No additional samples will be collected from the green or white-labeled sample locations.

Etech is prepared to begin resampling upon NMOCD approval of the proposed sampling plan. Form C-141N sampling notifications will be submitted 2 business days prior to any sampling, as required.

In regard to the areas around test trenches TT2 and TT5, Etech believes that those areas, as well as the areas around the other 3 trenches and the excavation as a whole, have been adequately sampled (the required resamples notwithstanding). Five-point composite floor and wall samples were collected from those areas in 2024. A minimum of 610 areas of the excavation floor were sampled in 2024, and an additional 175 areas have been sampled thus far in 2025. To reduce clutter and enhance readability, only the central-most collection points of each composite floor sample were depicted in the "Sample Location" maps (Figures 3A and 3B) included in the original and amended closure reports. However, for each floor sample depicted in the figures, there were 4 additional sample points not shown. I have included a couple of insets in the attached Figures 3A and 3B to illustrate this (see example below; spoke sample locations are approximate).



The Site Characterization discrepancies will be addressed in an updated closure report, following the resampling event.

If you have any questions or need any additional information, please let me know.

Respectfully,
Ben J. Arguijo

Ben J. Arguijo
Project Manager



6309 Indiana Ave., Ste. D
Lubbock, TX 79413
(432) 813-1592

From: [Wells, Shelly, EMNRD](#)
To: [Ben Arguijo](#)
Cc: [Connor Walker](#); [Jeff Broom](#); [Lance Crenshaw](#)
Subject: RE: [EXTERNAL] RE: [EXT] The Oil Conservation Division (OCD) has rejected the application, Application ID: 435304
Date: Tuesday, March 25, 2025 4:35:03 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

Hi Ben,

I have reviewed the updated proposed sample map and the proposed sampling locations/depths are approved. I appreciate you getting to this quickly.

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Ben Arguijo <bena@etechenv.com>
Sent: Tuesday, March 25, 2025 2:07 PM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Connor Walker <cwalker@mewbourne.com>; Jeff Broom <jbroom@mewbourne.com>; Lance Crenshaw <lance@etechenv.com>
Subject: RE: [EXTERNAL] RE: [EXT] The Oil Conservation Division (OCD) has rejected the application, Application ID: 435304

Shelly,

Attached please find updated "Proposed Resample Location" maps for Mewbourne's Pavo Frio to Westall SWD Line release (NMOCD Incident ID #nAPP2424249029).

To address each of the points from your email yesterday:

- "...sample 143 is right where the excavation was between 3 and 7' depth so that one is out."
 - I have proposed two additional grab samples from sample point 143 at depths of 5.5'

and 7' (we already have a sample at 4').

- "OCD would still like to see 3 more samples gathered between 52 and 125..."
 - I have added grab sample locations 161, 162, and 163 in this area. For 163, I have proposed two grab samples at depths of 4.5' and 6', as the excavation transitioned from 3' to 6' in that area.
- "...AND 3 more samples between 101 and 87..."
 - I have added grab sample locations 158, 159, and 160 in this area.
- "Remove the suggested samples of 135, 144, 146, 150 and 152 in order to add in the 6 requested samples."
 - These sample locations are now labeled in green ("No Resample Required") on the attached maps.
- "Resubmit an updated sample proposal to me via email containing the 25 proposed sample locations prior to collection."
 - There are actually 26 proposed grab sample locations on the attached maps, including the required resamples and the 6 new locations.

If you have any questions or need any additional information, please let me know.

Respectfully,
Ben J. Arguijo

Ben J. Arguijo
Project Manager



6309 Indiana Ave., Ste. D
Lubbock, TX 79413
(432) 813-1592

From: OCDOnline@state.nm.us
To: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 445963
Date: Wednesday, March 26, 2025 3:08:42 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#) nAPP2424249029.

The sampling event is expected to take place:

When: 03/31/2025 @ 07:30

Where: L-18-18S-29E 0 FNL 0 FEL (32.74355,-104.11546)

Additional Information: Addison Elston, 432-236-1152

Additional Instructions: From the southeastern intersection of NM-360 and Cowtown Rd (32.754691, -104.106244), head SW on Cowtown Rd for 0.97 mi, then SE for 0.37 mi, then S for 0.04 mi, then W for 0.01 mi to arrive at the Pavo Frio Flow Line release area (32.743845, -104.115364).

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: 445965
Date: Wednesday, March 26, 2025 3:10:27 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#) nAPP2424249029.

The sampling event is expected to take place:

When: 04/01/2025 @ 07:30

Where: L-18-18S-29E 0 FNL 0 FEL (32.74355,-104.11546)

Additional Information: Addison Elston, 432-236-1152

Additional Instructions: From the southeastern intersection of NM-360 and Cowtown Rd (32.754691, -104.106244), head SW on Cowtown Rd for 0.97 mi, then SE for 0.37 mi, then S for 0.04 mi, then W for 0.01 mi to arrive at the Pavo Frio Flow Line release area (32.743845, -104.115364).

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: 445968
Date: Wednesday, March 26, 2025 3:12:21 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#) nAPP2424249029.

The sampling event is expected to take place:

When: 04/02/2025 @ 07:30

Where: L-18-18S-29E 0 FNL 0 FEL (32.74355,-104.11546)

Additional Information: Addison Elston, 432-236-1152

Additional Instructions: From the southeastern intersection of NM-360 and Cowtown Rd (32.754691, -104.106244), head SW on Cowtown Rd for 0.97 mi, then SE for 0.37 mi, then S for 0.04 mi, then W for 0.01 mi to arrive at the Pavo Frio Flow Line release area (32.743845, -104.115364).

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: 445969
Date: Wednesday, March 26, 2025 3:14:35 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#) nAPP2424249029.

The sampling event is expected to take place:

When: 04/03/2025 @ 07:30

Where: L-18-18S-29E 0 FNL 0 FEL (32.74355,-104.11546)

Additional Information: Addison Elston, 432-236-1152

Additional Instructions: From the southeastern intersection of NM-360 and Cowtown Rd (32.754691, -104.106244), head SW on Cowtown Rd for 0.97 mi, then SE for 0.37 mi, then S for 0.04 mi, then W for 0.01 mi to arrive at the Pavo Frio Flow Line release area (32.743845, -104.115364).

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: 445971
Date: Wednesday, March 26, 2025 3:16:34 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#) nAPP2424249029.

The sampling event is expected to take place:

When: 04/04/2025 @ 07:30

Where: L-18-18S-29E 0 FNL 0 FEL (32.74355,-104.11546)

Additional Information: Addison Elston, 432-236-1152

Additional Instructions: From the southeastern intersection of NM-360 and Cowtown Rd (32.754691, -104.106244), head SW on Cowtown Rd for 0.97 mi, then SE for 0.37 mi, then S for 0.04 mi, then W for 0.01 mi to arrive at the Pavo Frio Flow Line release area (32.743845, -104.115364).

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

Appendix F

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 6 5 4 9

HPD Log No(s).

Registration

Lead Agency: US Bureau of Land Management Carlsbad Field Office

Performing Agency: SWCA Environmental Consultants

Activity ID: 92621

Performing Agency Report No:

Other Agencies:

Report Recipient (Your Client): Etech Environmental & Safety Solutions

- Activity Types:
- ☐ Research Design
 - ☒ Archaeological Survey/Inventory
 - ☐ Architectural Survey/Inventory
 - ☐ Test Excavation
 - ☐ Monitoring
 - ☐ Collections/Non-Field Study
 - ☐ Compliance Decision
 - ☐ Literature Review Overview
 - ☐ Excavation
 - ☐ Ethnographic Study
 - ☐ Resource/Property Visit
 - ☐ Historic Structures Report
 - ☐ Other:

Total Survey Acreage: 25.89

Total Tribal Acreage: 0.00

Total Resources Visited: 0

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 6 5 4 9

HPD Log No(s).

Associate/Register Resources

Prefix	Number	Field Site/Other Number	In GIS	Resource Type	Collections Made?	Revisit
--------	--------	----------------------------	--------	---------------	-------------------	---------

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 6 5 4 9

HPD Log No(s).

Report Details

Type of Report

Type of Report: Negative

Lead Agency

Lead Agency: US Bureau of Land Management Carlsbad Field Office

Lead Agency Report No.

Report Number: 24-688

Title of Report

Title of Report: A Class III Cultural Resources Survey for the Pavio Frio Flow Line Inadvertent Release (32.743938°, -104.115377°) Project in Eddy County, New Mexico**Authors:** Nadia Waski**Publication Type:** Report, Monograph, or Book

Description of Undertaking (what does the project entail?)

Description: Etech Environmental & Safety Solutions (Etech) contracted SWCA Environmental Consultants to conduct an intensive cultural resources pedestrian survey in support of the Pavio Frio Flow Line inadvertent pipeline release remediation project in Eddy County, New Mexico. The remediation process will require removing impacted sediments from the contaminated area and replacing them with clean soil. The survey area is 25.89 acres (10.46 hectares), including a 300 ft buffer around an overspray area of 0.70 acres (0.28 hectares), located approximately 17.6 miles (28.32 kilometers) southeast of Artesia, New Mexico entirely on lands managed by the Bureau of Land Management (BLM) Carlsbad Field Office (CFO).

Dates of Investigation

From: 28-Aug-2024 **To:** 28-Aug-2024

Report Date

Report Date: 10-Sep-2024

Performing Agency/Consultant

Name: SWCA Environmental Consultants**Principal Investigator:** Beau Murphy**Field Supervisor:** Josh Huck

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 6 5 4 9

HPD Log No(s).

Field Personnel Names: Dil Singh

Historian/Other: N/A

Performing Agency Report Number

Report Number:

Client/Customer (project proponent)

Name: Etech Environmental & Safety Solutions

Contact: Lance Crenshaw

Address: 110 N. Marienfeld Street Suite 200
Midland, TX 79701

Phone: 575.631.1064

Client/Customer Project Number

Project Number:

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 6 5 4 9

HPD Log No(s).

Ownership & Location

Land Ownership Status (Must be indicated on Project Map)

Owner/Manager List:

Land Owner/Manager	Protocol	Acres Surveyed	Acres in APE
US Bureau of Land Management Carlsbad Field Office	Class III	25.89	25.89

Total Survey Acreage: 25.89

Total Tribal Acreage: 0.00

Record Search(es)

Date of HPD/ARMS File Review: 16-Aug-2024

Date of Other Agency File Review: Click or tap to enter a date.

Survey Data

Source Graphics: NAD 83

- ☒ USGS 7.5' (1:24,000) topo map
- ☐ Other Topo Map
- Scale:
- ☒ GPS Unit <1M
- ☐ Aerial Photos
- Other Source Graphic(s):

The following tables (b,c,& e) are calculated by the NMCRIS Map Service

USGS 7.5' Topographic Map(s)

Map Name	USGS Quad Code
Illinois Camp NE, NM	32104-F1

County(ies)

County	FIPS
EDDY	35015

Legal Description

Unplatted	Township (N/S)	Range (E/W)	Section
	T18S	R29E	18

Projected Legal Description

Nearest City or Town: Artesia

Other Description:

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 6 5 4 9

GIS

HPD Log No(s).

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NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 6 5 4 9

Methodology

HPD Log No(s).

Survey Field Methods

Intensity:

100% coverage

Configuration:

☒ Block Survey Units

☐ Linear Survey Units (l x y)

Other Survey Units:

Scope:

All Resources

Coverage Method:

☒ Systematic Pedestrian Coverage

Other Method:

Survey Interval (m):

15

Crew Size:

2

Fieldwork Dates

From

28-Aug-2024

To

28-Aug-2024

Survey Person Hours:

6

Recording Person Hours:

0

Additional Narrative:

SWCA surveyed a 300-ft (91.44-meter) buffer around the inadvertent release location to provide sufficient area for remediation activities. All portions of the survey area were successfully inventoried in 15-m transects, encountering no archaeological sites but two lithic isolates.

Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.)

Environmental Setting:

The project area is within the Chihuahuan Basins and Playas (24a) U.S. Environmental Protection Agency Level III ecoregion (Griffith et al. 2006). The ecoregion is composed of deep depressions or grabens filled with sediment to form flat to rolling basins. Basins are either alluvial fans, internally drained basins, or river valleys internally drained with ephemeral streams. Geology underlying the project area consists of Quaternary and some late Tertiary alluvium and erosional materials from surrounding mountains, including unconsolidated basin deposits of silt, sand, and gravel. These sediments include piedmont and fan alluvium, river alluvium, lacustrine and playa deposits, eolian deposits, and calcretes. (U.S. Geological Survey 2003). The survey area itself sits at an elevation of approximately 3,545 feet (1,081 meters) above mean sea level, in an area of sandy flats with desert scrubland vegetation. The survey area is composed of a single soil type, Simona-Bippus complex, 0 to 5 percent slopes (NRCS 2024). The soil consists of fine loamy sand, formed in calcareous sandy sediments over fractured caliche, found on upland plains, mesa tops, and low ridges.

The climate information for the survey area was compiled using the Carlsbad, New Mexico, climate station (291469) data (period of record: February 1, 1900–June 10, 2016). Rainfall for the general project area was most abundant from May through October, averaging 4.14 centimeters (cm) (1.63 inches), with September having the heaviest average precipitation. Snowfall occurred from November through April, but was heaviest between December and January, with an average of 0.47 cm (1.2 inches); annual snowfall averages 11.18 cm (4.4 inches). Average temperatures were coldest in January at –2.33 degrees Celsius (27.8 degrees Fahrenheit) and warmest in July at 35.33 degrees Celsius (95.6 degrees Fahrenheit) (Western Regional Climate Center 2024).

The typical vegetation in the area includes fourwing saltbush, seepweed, pickleweed, and alkali sacaton (Griffith et al. 2006). Plants observed during the survey include bunch grasses and forbs, as well as shrubs such as shinnery oak, narrow yucca, desert sage,

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 6 5 4 9**HPD Log No(s).**

mesquite, pencil cactus, and prickly pears. Wildlife in the area includes mule deer and coyotes. Also typical to the area are bobcat, gopher, cottontail rabbit, jackrabbit, peccary, and various species of field mice, striped skunk, and pack rat (Biota Information System of New Mexico 2024). Important animal species prehistorically included deer, jackrabbit, and cottontail rabbit. Prehistorically, bison were in the region during at least some periods.

Biota Information System of New Mexico

2024 Database Query for Eddy County. Available at: <http://www.bison-m.org/>. Accessed September 2024.

Griffith, G. E., J. M. Omernik, M. M. McGraw, G. Z. Jacobi, C. M. Canavan, T. S. Schrader, D. Mercer, R. Hill, and B. C. Moran

2006 Ecoregions of New Mexico. Color poster with map, descriptive text, summary tables, and photographs. Map scale 1:1,400,000. U.S. Geological Survey, Reston, Virginia.

Natural Resources Conservation Service

2024 Web Soil Survey. Available at: <http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>. Accessed September 2024.

U.S. Geological Survey

2003 New Mexico Resource Geographic Information System Program (NMBGMR500kGeology). Available at: <https://rgis.unm.edu/rgis6/>. Accessed September 2024.

Western Regional Climate Center

2024 New Mexico Climate Summaries. Climate Summary for Carlsbad, New Mexico (COOP Station ID No. 291469). Available at: <https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?nm1469>. Accessed September 2024.

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 6 5 4 9**HPD Log No(s).**

Methodology

Percent Ground Visibility

Ground Visibility: 51-75%

Condition of Survey Area: The northern portion of the survey area includes a power line system and a two-track with an associated pipeline traversing north-south. The western part of the survey area is heavily disturbed by an access route entering from the northwest. At the project area's southern boundary, small, incised drainages are visible crossing the inadvertent release area.

Attachments (check all appropriate boxes)

- ✓ USGS 7.5 Topographic Map with sites, isolates, and survey area clearly drawn (required)
- ✓ Copy of NMCRIS Map Check (required)
- ☐ LA Site Forms – new sites (with sketch map & topographic map) if applicable
- ☐ LA Site Forms (update) – previously recorded & unrelocated sites (first 2 pages minimum)
- ☐ Historic Cultural Property Inventory Forms, if applicable
- ✓ List and Description of Isolates, if applicable
- ☐ List and Description of Collections, if applicable

Other Attachments

- ✓ Photographs and Log
- ✓ Other attachments **Describe:** BLM FAR Form

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 6 5 4 9
HPD Log No(s).

Cultural Resource Findings

Investigation Results

Archaeological Sites Discovered and Registered: 0
Archaeological Sites Discovered and NOT Registered: 0
Previously Recorded Archaeological Sites Revisited (site update form required): 0
Previously Recorded Archaeological Sites Not Relocated (site update form required): 0
Total Archaeological Sites (visited & recorded): 0
Total Isolates Recorded: 2

✓ Non-
Selective Isolate Recording

HCPI Properties Discovered and Registered: 0
HCPI Properties Discovered And NOT Registered: 0
Previously Recorded HCPI Properties Revisited: 0
Previously Recorded HCPI Properties NOT Relocated: 0
Total HCPI Properties (visited & recorded, including acequias): 0

**If No Cultural
Resources Found,
Discuss Why:**

Management Summary

Summary: SWCA Environmental Consultants (SWCA) was contracted by Etech Environmental & Safety Solutions to conduct an intensive pedestrian cultural resources survey for the Pavio Frio Flow Line Inadvertent Release (32.743938°, -104.115377°) Remediation Project in Eddy County, New Mexico. The survey included the 0.70-m (0.28 hectare [ha]) inadvertent release area and a 300 ft x 300 ft cultural resources buffer. The total survey area is 25.89 acres (10.46 ha).

In accordance with Section 106 of the National Historic Preservation Act (Public Law 89-665), as amended, a cultural resources inventory was completed to locate, identify, and record any cultural resources that may be affected within the area of potential effects (APE) of the proposed project, and provide recommendations regarding their eligibility for listing in the National Register of Historic Places (NRHP).

No archaeological sites or historic properties were observed during the current investigation; two isolated occurrences (IO) of unknown age were identified. IO 1 is a gray chert flake, and IO 2 is a gray and pink chert late-stage biface fragment. The isolated occurrences are recommended as not eligible for NRHP listing. No additional investigation or treatment is recommended regarding the current undertaking; however, if previously unrecorded cultural resources are discovered during the undertaking, SWCA recommends that work should cease and the BLM-CFO should be notified immediately.

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 6 5 4 9

HPD Log No(s).

Attachments

Documents

Attachment Type	Description	Name	File Type	Size	Upload Date	Upload By
Report/Manuscript	Negative Report	NMCRIS_156549	PDF			Nadia Waski



Figure 1. Project overview, from eastern boundary, facing west (Frame 9739).



Figure 2. Project overview, from western boundary, facing east (Frame 7930).



Figure 3. Project overview of inadvertent release area with drainages to the south, facing east (Frame 6919).



Figure 4. Project overview with inadvertent release area, from southern boundary, facing north (Frame 4458).



Figure 5. Project overview, from north boundary, facing southwest (Frame 0710).

Table 1. Locational Information for Isolated Occurrences (IO) within the Survey Area

IO Number	Area (m ²)	Isolate Description	UTM Coordinates for Site Centroid (NAD83, Zone 13)	
			Easting	Northing
IO 1				
IO2				



Figure 6. IO 2, [REDACTED]

Table 2. Locational Information for Project Overview Photos within the Survey Area

Photo number	Photo Description	UTM Coordinates for Site Centroid (NAD83, Zone 13)	
		Easting	Northing
Frame 0710	Project overview, facing southwest	582934	3623344
Frame 4458	Project overview, facing north	582774	3622857
Frame 6919	Project overview, facing east	582842	3623202
Frame 7930	Project overview, facing east	582704	3622984
Frame 9739	Project overview, facing west	582967	3623046

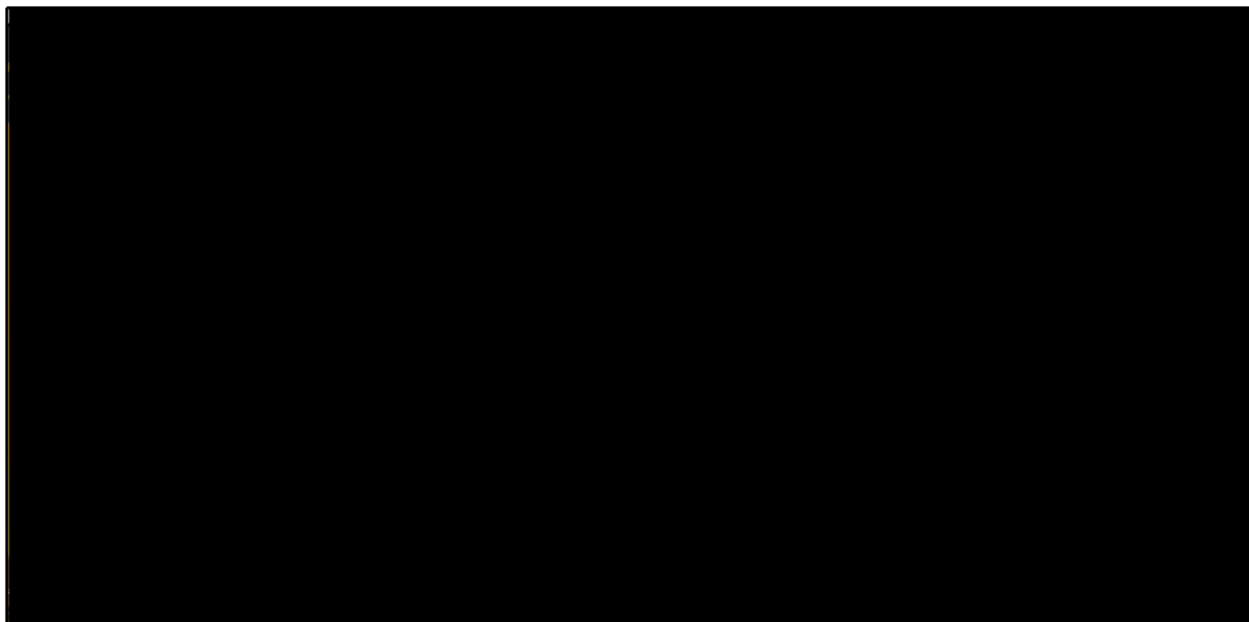


Figure 7. NMCRIS Records search showing previously conducted surveys (brown and yellow polygons), previously recorded resources (orange) and the survey area (light green).

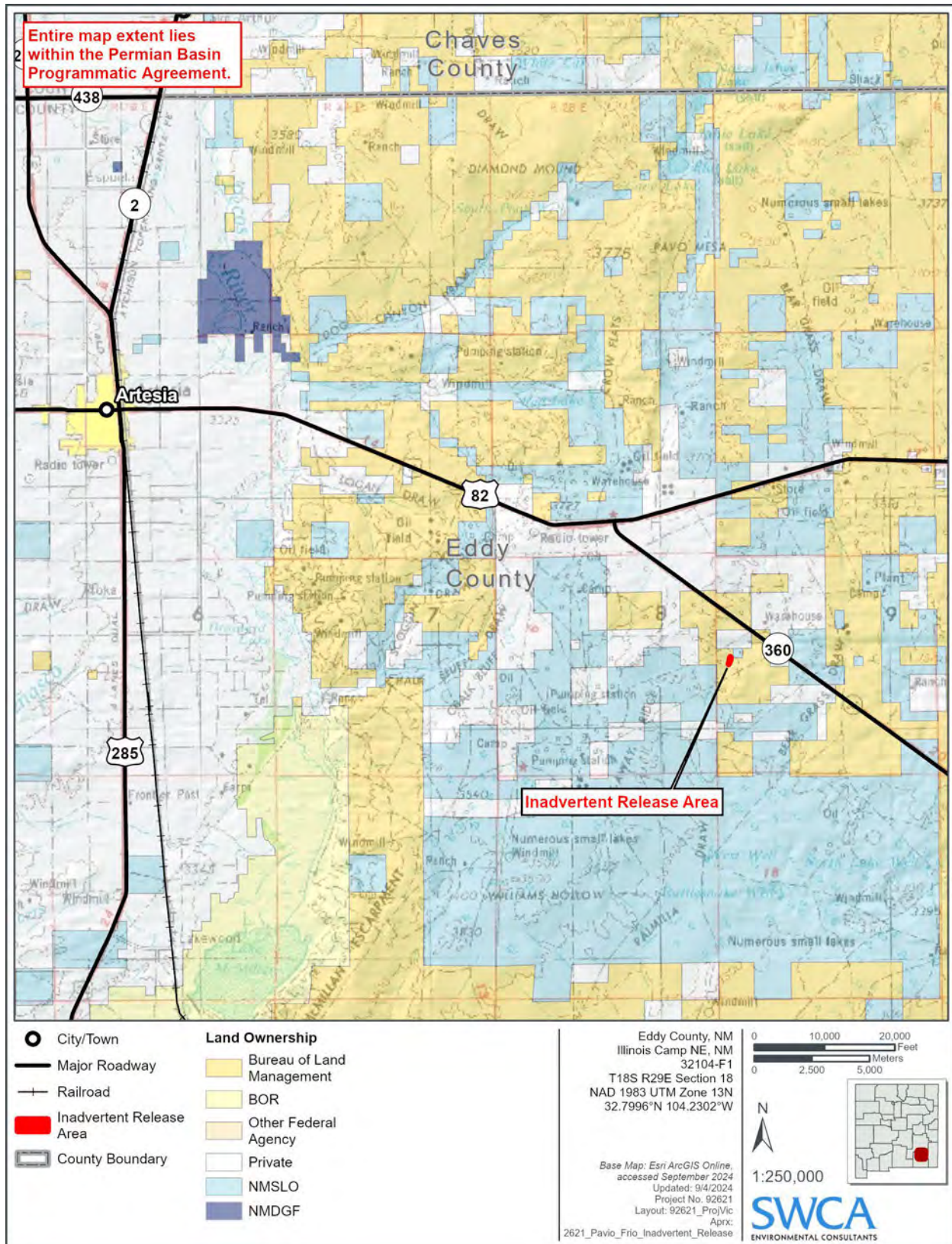


Figure 8. Project Vicinity Map.

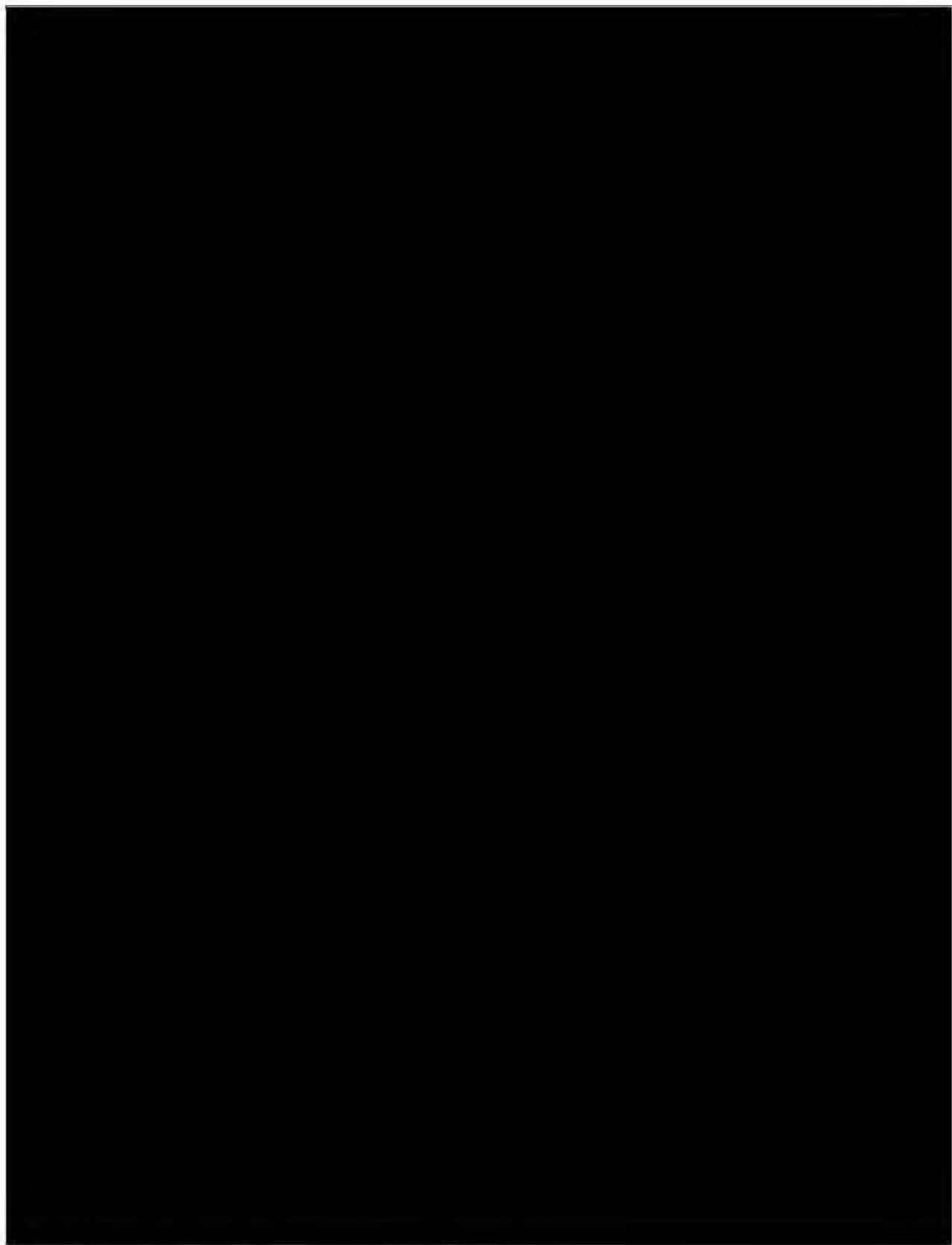


Figure 9. Project Location Map with Cultural Resources.

United States
Department of the Interior
Bureau of Land Management

INFORMATION
REQUIREMENT
APPROVED
OMB NO. 1024-0037

FIELDWORK AUTHORIZATION REQUEST**For BLM Use Only**

To Conduct Specific Cultural Resource Work under the Authority of a
Cultural Resource Use Permit Issued by the Bureau of Land Management
Pursuant to Sec. 302 (b) of P. L. 94-579, October 21, 1976, 43 USC 1732
Sec. 4 of P. L. 96-95, October 31, 1979, 16 USC, 470cc

1. Permit Number and Date Issued **110-2920-223-III**

2. Name of Permittee **Courtney Blair**

3. Mailing Address and Telephone Number

Address: **SWCA Environmental Consultants
5647 Jefferson St. NE
Albuquerque, New Mexico 87109**

Vgrgrj qpg]*zzz+zzz/zzzz,< **(505) 254-1115**

4. Nature of Cultural Resources Work Proposed (if Consultation Work, Identify Client and Project)

Survey of proposed Pavio Frio Inadvertent Release Project in Eddy County. Survey at least a 100ft buffer around the spill area and any roads or soil stock storage areas that are needed.

5. Location of Proposed Work (Include Map)

a. Description of Public Lands Involved

SE New Mexico, BLM CFO in Eddy County, NM

b. Identification of Cultural Resource(s) Involved (if applicable)

No sites were found within 100 feet of the inadvertent release. One qualifying previous survey intersects the northern portion of the release. SWCA plans to survey a 300 ft cultural buffer around the release

6. Period During Which Work Will Be Conducted

From]o o lff l{ { _: **8/28/24**

To]o o lff l{ { _: **9/1/24**

7. Name of Individual(s) Responsible for Planning and Supervising Fieldwork and Approving Report, Evaluations, and Recommendations

**Beau Murphy - Project Manager
Courtney Blair - Cultural Resources Lead
Robin Cordero-PI**

8. Signature **Courtney Blair**

9. Date]o o lff l{ { _< **8/23/24**

10. Approved

Aaron Whaley
(Authorized Officer)

11. Date]o o lff l{ { _< **8/27/24**

Submit one copy of each request, by mail, FAX, or in person to the Field Office Manager in the BLM
Field Office with administrative jurisdiction over the public lands involved.

Appendix G

Addendum

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Wednesday, November 27, 2024 11:54:04 AM

To: Connor Walker <cwalker@mewbourne.com>

Subject: [EXT] The Oil Conservation Division (OCD) has rejected the application, Application ID: 403175

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2424249029, for the following reasons:

- **Remediation closure denied for the following:**
- **1) Samples were not collected pursuant to 19.15.29.12D.(1)(c) NMAC. The estimated surface area that was remediated was 31,460 square feet which should have resulted in the collection of at least 157 base samples.**

Between January 24 and January 27, 2025, a total of 35 sections (FL 123 through FL 157) of the previously backfilled excavation were re-excavated to four (4) feet below ground surface (bgs) to facilitate the collection of additional floor samples from the remediated area (with one area requiring additional excavation to 5 feet bgs). The locations of the additional floor samples are depicted on Figures 3A and 3B in the preceding report. Laboratory analytical results are summarized in Table 1, and the corresponding lab reports are provided in Appendix D.

2) Samples were collected on 9/23/24 without proper sampling notification. Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D(1)(a) NMAC. Failure to provide proper sampling notice is a compliance issue and the OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D(1)(a) NMAC.

This was an oversight. Mewbourne and Etech will take pains to ensure future compliance with 19.15.29.12.D(1)(a) NMAC.

- **3) The Site Characterization distances for the following need updated when you resubmit your report: a) Significant watercourse-the release pathway ends in an arroyo which is a significant watercourse b) Figure 2A shows Wetlands a couple hundred feet away c) Figure 2B shows Karst as Low**

The "Site Characterization" table in Section 2.0 of the preceding report has been updated as appropriate.

- 4) Area of TT2 was excavated to 3' however delineation samples show chlorides above closure criteria down to 5'. This needs to be addressed before closure can be approved.
- 5) In the area of TT2, how was WW1 and EW1 collected at 0-7 feet if FL 8 was collected at 3' and FL 5-7 were collected at 4'? Explain in resubmittal.

The area characterized by test Trench TT 2 was excavated to a total depth of seven (7) feet bgs. The excavated area was characterized by composite floor sample FL 9 @ 7'. Composite wall samples EW 1 and WW 1 were collected along areas that included sample points FL 5 through FL 9. In Figure 3B of the rejected closure request, the label for trench TT 2 was inadvertently covering the label for sample point FL 9. This error has been corrected in Figure 3B of the preceding report.

- **Resubmit remediation closure report to the OCD by 2/25/25.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 403175.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Shelly Wells
Environmental Specialist-A
505-469-7520
Shelly.Wells@emnrd.nm.gov

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
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 524537

QUESTIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 524537
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2424249029
Incident Name	NAPP2424249029 PAVO FRIO TO WESTALL SWD LINE @ L-18-18S-29E
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source*Please answer all the questions in this group.*

Site Name	PAVO FRIO TO WESTALL SWD LINE
Date Release Discovered	08/15/2024
Surface Owner	Federal

Incident Details*Please answer all the questions in this group.*

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	Yes
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Lightning Pipeline (Any) Produced Water Released: 108 BBL Recovered: 0 BBL Lost: 108 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)	The affected area contains an unnamed arroyo to the SSW of the GPS coordinates that is dry and only flows during major monsoons.

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QUESTIONS, Page 2

Action 524537

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 524537
	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: (b) may with reasonable probability reach a watercourse.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	n/a

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: Jeff Broom Title: Environmental Rep Email: jlbroom@mewbourne.com Date: 11/07/2025
----------------------------------------------------	--------------------------------------------------------------------------------------------------

Sante Fe Main Office
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General Information
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QUESTIONS, Page 3

Action 524537

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 524537
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	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	Zero feet, overlying, or within area
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (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 1000 (ft.) and ½ (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	Zero feet, overlying, or within area
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<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)	20000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	14700
GRO+DRO (EPA SW-846 Method 8015M)	11400
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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	09/06/2024
On what date will (or did) the final sampling or liner inspection occur	01/27/2025
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	31460
What is the estimated volume (in cubic yards) that will be reclaimed	4128
What is the estimated surface area (in square feet) that will be remediated	31460
What is the estimated volume (in cubic yards) that will be remediated	4136

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.

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QUESTIONS, Page 4

Action 524537

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 524537
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>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>	
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: Jeff Broom Title: Environmental Rep Email: jlbroom@mewbourne.com Date: 11/07/2025
<i>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.</i>	

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QUESTIONS, Page 5

Action 524537

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 524537
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 524537

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 524537
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	445971
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/04/2025
What was the (estimated) number of samples that were to be gathered	26
What was the sampling surface area in square feet	5200

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	31460
What was the total volume (cubic yards) remediated	4136
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	31460
What was the total volume (in cubic yards) reclaimed	4128
Summarize any additional remediation activities not included by answers (above)	n/a
<i>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>	
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: Jeff Broom Title: Environmental Rep Email: jbroom@mewbourne.com Date: 11/07/2025

Sante Fe Main Office
Phone: (505) 476-3441

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QUESTIONS, Page 7

Action 524537

QUESTIONS (continued)

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	Action Number: 524537
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 524537

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 524537
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CONDITIONS

Created By	Condition	Condition Date
scwells	None	11/21/2025