

Remediation Summary & Soil Closure Request

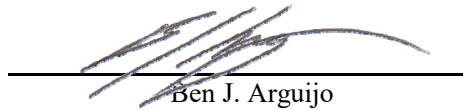
Mewbourne Oil Company Dagger Draw Trunk Line

Eddy County, New Mexico
Unit Letter "O", Section 10, Township 20 South, Range 25 East
Latitude 32.580784 North, Longitude 104.470355 West
NMOCD Reference No. nAPP2409454303

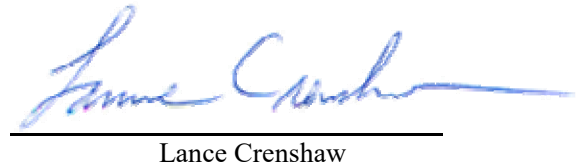
Prepared By:

Etech Environmental & Safety Solutions, Inc.
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July 24, 2025



Ben J. Arguijo



Lance Crenshaw



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company (Mewbourne), has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Dagger Draw Trunk Line ("Site"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.580784 Longitude: -104.470355

Provided GPS are in WGS84 format.

Site Name: <u>Dagger Draw Trunk Line</u>	Site Type: <u>Pipeline</u>
Date Release Discovered: <u>3/22/2024</u>	API # (if applicable): <u>N/A</u>

Unit Letter	Section	Township	Range	County
"O"	10	20S	25E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name Willard Laurence David, et al./Henry Terpening)

Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <u>113</u>	Volume Recovered (bbls) <u>85</u>
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered
Cause of Release: <u>A check valve in the 4" poly SWD line developed a hole.</u>		

Initial Response

<input checked="" type="checkbox"/> The source of the release has been stopped.
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.
<input checked="" type="checkbox"/> Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.

Previously submitted portions of the New Mexico Oil Conservation Division (NMOCD) Form C-141 are available in the NMOCD Permitting System.

2.0 SITE CHARACTERIZATION

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)?	Between 51 and 75 (ft.)
What method was used to determine the depth to groundwater?	Direct Measurement
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 and 5 (mi.)
An occupied permanent residence, school, hospital, institution or church?	> 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Between 1,000 (ft.) and ½ (mi.)
Any other fresh water well or spring?	Between 1,000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field?	> 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?	Zero feet, overlying, or within area
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. In addition, on May 6, 2024, an investigative soil boring was drilled nearby in an effort to determine if shallow groundwater is present in the area. The soil boring was advanced to a total depth of approximately 55 feet bgs and left open for over 72 hours. No indications of inflow and/or accumulation of water were noted during the advancement of the soil boring or prior to plugging and abandonment. A groundwater gauging event conducted on May 9, 2024, confirmed that the borehole was dry. The location of the investigative soil bore is depicted in Figures 2A, 2B, and 4. A drilling log is provided in Appendix A.

A cave and karst study of the affected area was conducted by a third-party environmental contractor on July 16 and 21, 2024. According to the *Cave and Karst Resource Inventory Report* (Karst Survey) dated August 23, 2024, there are "no surface karst features within 200 feet (61 meters) of the spill delineation boundary. Pseudokarst (soil piping) was observed within the survey area. While not karst, soil piping still presents a trip and fall hazard for personnel, and tipping hazard for equipment and should be avoided if possible. The lack of surface karst features does not mean the area is not karstified and the survey area may still contain buried karst features." The Karst Survey is provided as Appendix F.

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
Between 51 and 75 (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).

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

4.0 REMEDIATION ACTIVITIES SUMMARY

Requesting a remediation plan approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
On what estimated date will (or did) the remediation commence?	3/27/2024	
On what date will (or did) the final sampling or liner inspection occur?	6/20/2025	
On what date will (or was) the remediation complete(d)?	6/20/2025	
What is the total surface area (sq. ft.) in need of or that will <i>eventually</i> be reclaimed?	25,540	
What is the total volume (cy) in need of or that will <i>eventually</i> be reclaimed?	3,784	
What was the total surface area (sq. ft.) that has or will be remediated?	25,540	
What was the total volume (cy) that has or will be remediated?	6,280	
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 March 27, 2024, remediation commenced at the Site. To facilitate remedial activities, the affected area was divided into two (2) sections: the "Upper Excavation", which was located within the bluff of an arroyo to the south of the release point, and the "Lower Excavation", which was located within the arroyo itself. 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 extent of impacted soil and guide excavation efforts. The excavations were advanced horizontally and vertically until field tests and field observations suggested that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria, or to the extent practicable. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floors of the excavated areas to be submitted for laboratory analysis. A summary of soil sampling events is provided in the table on the following page.

Summary of Soil Sampling Events

Constituent	Highest Observable Concentration (mg/kg)	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	25,200	FL 88 @ 8'	4/24/2024	8	In-Situ
TPH	180	FL 82 @ 8'	4/24/2024	8	In-Situ
GRO+DRO	154	FL 82 @ 8'	4/24/2024	8	In-Situ
BTEX	8.27	FL 70 @ 8'	4/24/2024	8	In-Situ
Benzene	0.070	FL 70 @ 8'	4/24/2024	8	In-Situ

Please reference Table 1 for additional information.

On April 8, 2024, Etech collected 56 confirmation soil samples (FL 1 @ 3' through FL 10 @ 3', FL 12 @ 3' through FL 23 @ 3', FL 25 @ 3' through FL 29 @ 2.5', FL 32 @ 3' through FL 41 @ 2', FL 43 @ 2.5', FL 45 @ 4', FL 46 @ 2.5', FL 47 @ 3', FL 49 @ 2.5', NW 1 through NW 5, EW 1, EW 2, SW 1 through SW 4, WW 1, WW 2, and WW 3) from the floor and sidewalls of the Lower Excavation and one (1) confirmation soil sample (EW 3) from the sidewall of the Upper Excavation. The soil samples were submitted to an NMOCD-certified, commercial environmental laboratory ("the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples, with the exception of sample FL 18 @ 3', which exceeded the NMOCD Closure Criterion for chloride. Based on these laboratory analytical results, the floor of the Lower Excavation was subsequently further advanced in the area characterized by soil sample FL 18 @ 3'.

On April 9, 2024, Etech collected two (2) confirmation soil samples (FL 24 @ 5' and FL 42 @ 6') from the floor of the Lower Excavation. 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 in each of the submitted soil samples.

On April 10, 2024, Etech collected six (6) confirmation soil samples (FL 11 @ 7', FL 30 @ 8', FL 31 @ 8', FL 48 @ 7.5', FL 50 @ 8', and FL 51 @ 8') from the floor of the Lower Excavation. 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 in each of the submitted soil samples.

On April 11, 2024, Etech collected 13 confirmation soil samples (FL 52 @ 6' through FL 64 @ 8') from the floor of the Lower Excavation. 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 in each of the submitted soil samples.

On April 16, 2024, Etech collected one (1) confirmation soil sample (FL 18 @ 3.5') from the floor of the Lower Excavation and seven (7) confirmation soil samples (NW 6, NEW 1, NEW 2, NEW 3, SWW 1, SWW 2, and SWW 3) from the sidewalls of the Upper Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples.

On April 24, 2024, Etech collected three (3) confirmation soil samples (FL 65 @ 6', FL 66 @ 6', and FL 67 @ 8') from the floor of the Lower Excavation and 25 confirmation soil samples (FL 68 @ 8' through FL 92 @ 8') from the floor of the Upper Excavation. 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 in each of the submitted soil samples, with the exception of sample FL 82 @ 8', which exceeded the NMOCD Closure Criterion for TPH. Chloride concentrations in soil samples FL 68 @ 8' through FL 92 @ 8' exceeded the NMOCD Closure Criterion.

On April 24, 2024, Etech also advanced three (3) test trenches (TT 1, TT 2, and TT 3) in the floor of the Upper Excavation in an effort to delineate the vertical extent of impacted soil in the areas characterized by soil samples FL 68 @ 8' through FL 92 @ 8'. During the advancement of the test trenches, soil samples were collected at increments of two (2) feet 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 test observations and field test data, a total of 24 delineation soil samples (TT 1 @ 8' through TT 1 @ 28', TT 2 @ 8' through TT 2 @ 22', and TT 3 @ 8' through TT 3 @ 16') were submitted to 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 approximately 14 feet bgs in trench TT 3 to approximately 28 feet bgs in trench TT 1. The horizontal extent of the affected area was previously delineated via confirmation wall soil samples NW 6, NEW 1, NEW 2, NEW 3, SWW 1, SWW 2, and SWW 3.

On June 18, 2024, based on laboratory analytical results, field observations, and in-situ chloride migration modeling (see Appendix E), Mewbourne submitted a *Remediation Summary & Variance Request* to the NMOCD requesting approval to install a compacted clay liner at eight (8) feet bgs in the floor of the Upper Excavation in the area characterized by sample points FL 68 @ 8' through FL 92 @ 8' and test trenches TT 1, TT 2, and TT 3 ("Proposed Lined Section"). The request was denied on July 2, 2024, with the mandate, "excavation must be to the maximum extent practicable and agreeable to the OCD." It was also recommended that standard penetration testing or other investigative methods be employed if karst collapse was a concern.

On September 30, 2024, following receipt of the aforementioned Karst Survey for the Site (see Section 2.0), Mewbourne submitted an amended *Remediation Summary & Variance Request* (Amended Variance Request) to the NMOCD reiterating the previously requested variance to install a clay liner in the Proposed Lined Section of the Upper Excavation, and requesting permission to backfill the Lower Excavation. The Amended Variance Request was conditionally approved on November 1, 2024, with the stipulation that the areas characterized by test trenches TT 1 and TT 2 (to include sample points FL 73 and FL 74) be excavated to a depth of at least twelve (12) feet bgs. Once excavated, that area could then be backfilled with non-waste containing material to a depth of eight (8) feet bgs and the Proposed Lined Section capped with a two (2) foot clay liner. It was further mandated that information on the source of the clay, as well as compaction data, be provided to the NMOCD prior to installation of the liner.

On November 8, 2024, Etech returned to the Site. In accordance with NMOCD requirements, the areas characterized by test trenches TT 1 and TT 2 and sample points FL 73 and FL 74 were excavated to a total depth of 12 feet bgs.

On November 15, 2024, due to challenges with sourcing suitable clay near the Site, Etech, on behalf of Mewbourne, submitted a request to the NMOCD seeking approval to install a "bentonite slurry seal" in the Proposed Lined Section of the Upper Excavation in lieu of the NMOCD-approved two (2) foot compacted clay liner. The slurry seal was to consist of a mixture of commercial-grade bentonite, caliche and topsoil sourced from the nearby Stockton Pit, and potable water, with Proctor compaction testing planned to ensure permeability and cohesion comparable to that of the approved liner. Composite samples of the caliche and topsoil were to be analyzed for BTEX, TPH, and chloride prior to placement in the excavation. The request was denied by the NMOCD on December 3, 2024, and Mewbourne was instructed to consult the United States Army Corps of Engineers (USACE) regarding the feasibility of conducting deeper excavation or implementing a liner system at the current depth.

On December 5, 2024, following additional correspondence between the NMOCD, Mewbourne, and Etech, the NMOCD reaffirmed its position that the proposed bentonite slurry seal was not approved for use at the Site. Based on the presence of chloride contamination at depths ranging from 12 to 26 feet bgs in the Proposed Lined Section, Mewbourne was again directed to confer with the USACE to evaluate the feasibility of deeper excavation or an alternative liner system.

On December 9, 2024, Etech notified the NMOCD that a suitable clay source had been located at the Gandy Marley disposal facility between Tatum and Roswell and requested confirmation that the material would be acceptable for use in the previously approved compacted clay liner, contingent upon favorable Proctor compaction test results. Later that same day, the NMOCD rescinded its prior approval of the clay liner, pending receipt of input from the USACE, as previously mandated.

On December 10, 2024, a 5-point composite soil sample (Stockton Backfill Pit) was collected at the nearby Stockton borrow pit from material representative of that to be imported to the Site for use as backfill. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards and confirmed that the material was acceptable for use as backfill.

On December 11, 2024, a sample of clay obtained from Gandy Marley was submitted to an American Association of State Highway and Transportation Officials (AASHTO) accredited laboratory for a Proctor compaction test using American Society for Testing and Materials (ASTM) D 1557 Method C ("Modified Proctor"). Compaction test results indicated that the material was suitable for use in a compacted clay liner.

On January 13, 2025, in an email response to an online inquiry from Mewbourne, the USACE stated, "...we do not currently have the ability to provide project-specific comments. If the activity should have the potential to result in the discharge of dredged or fill material into waters of the United States, then the project proponent should work directly with our office to acquire necessary Corps permits, if applicable..." The response was subsequently forwarded to the NMOCD, as previously directed.

On March 20, 2025, representatives of Mewbourne and the NMOCD met via teleconference to discuss the Site and determine a path forward to an NMOCD-approved closure. Mewbourne proposed the installation of a geosynthetic clay liner ("bentoliner") on the floor of the Proposed Lined Area to be capped with a two (2) foot layer of compacted clay, which would be compaction-tested on-site by personnel from an AASHTO-accredited laboratory. The request was subsequently approved by the NMOCD.

On March 26, 2025, Etech returned to the Site. As previously approved by the NMOCD, the areas characterized by test trenches TT 1 and TT 2 and sample points FL 73 and FL 74 were backfilled with non-impacted material imported from the Stockton borrow pit to a depth of eight (8) feet bgs. The Lower Excavation was also backfilled with the imported material.

On March 28, 2025, with NMOCD approval, a bentoliner was installed on the floor of the Proposed Lined Area. Following installation, the bentoliner was sprayed with water to activate the bentonite and promote sealing before placement of the compacted clay layer.

From March 31 through April 14, 2025, clay imported from Gandy Marley was installed atop the bentoliner (henceforth referred to collectively as "clay liner system") and compacted in 12- to 16-inch lifts.

On April 3 and 15, 2025, on-site nuclear density testing (ASTM D 6938) of the clay liner system was performed by personnel from an AASHTO-accredited laboratory to ensure that the required density of 95%, based on the Modified Proctor test results, was met.

From April 15 through 21, 2025, following installation of the clay liner system, the Upper Excavation was backfilled with non-impacted material imported from the Stockton borrow pit.

During preparation of the closure report for the release, it was discovered that a confirmation floor sample had not been collected from the area of the Lower Excavation designated as FL 44. On June 20, 2025, Etech returned to the Site, reexcavated the area in question to the previous depth of four (4) feet bgs, collected a composite floor sample (FL 44 @ 4'), and rebackfilled the area. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations in the sample were below the applicable NMOCD Closure Criteria.

The final dimensions of the excavated areas ranged from approximately 236 to 354 feet in length, 14 to 110 feet in width, and 2 to 12.5 feet in depth. During the course of remediation activities, Etech transported approximately 6,280 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported a commensurate volume of locally sourced, non-impacted material to the Site for use as backfill.

The extents of the excavated areas and clay liner system, as well as the locations of the test trenches and composite confirmation soil samples, are depicted in Figure 3, "Sample Location Map". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. General photographs of the Site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D. Copies of pertinent regulatory correspondence are provided in Appendix G. Sampling notification receipts are provided in Appendix H. Clay compaction test reports are provided in Appendix I.

5.0 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?	25,540	
What was the total volume (cy) remediated?	6,280	

Remediation activities were conducted in accordance with the NMOCD-approved Amended Variance Request and subsequent correspondence between NMOCD, Mewbourne, and Etech personnel. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated to the extent practicable and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate that in-situ concentrations of BTEX and TPH are below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

With NMOCD approval, a clay liner system was installed on a section of the floor of the Upper Excavation atop in-situ soil exhibiting chloride concentrations in exceedance of the NMOCD Closure Criterion. This engineered control is an eco-friendly, sustainable alternative to a traditional plastic liner and is designed to act as a barrier inhibiting the vertical migration of chloride contamination to the underlying groundwater.

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

6.0 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 (sq. ft.) reclaimed?	25,540	
What was the total volume (cy) reclaimed?	3,784	

Upon receipt of confirmation soil sample results and installation of the clay liner system, areas affected by remediation and closure activities were substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected areas were compacted and contoured to achieve erosion control, stability, and preservation of surface water flow.

On June 2, 2025, the area in and around the footprint of the Upper Excavation was revegetated with a New Mexico State Land Office (NMSLO) Loamy Site seed mix certified to be free of noxious weeds. The seed was installed at the prescribed rate utilizing a broadcaster and harrow. Due to safety and environmental concerns (i.e., steep gradients, soil piping, equipment inaccessibility, high erosion risk, etc.), affected areas within the arroyo and the lower portion of the bluff were not seeded. Photographs of the seeding event and a seed tag are provided in Appendix C. A "Revegetation Form" is provided in Appendix J.

7.0 LIMITATIONS

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

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

8.0 DISTRIBUTION

Mewbourne Oil Company

4801 Business Park Blvd.

Hobbs, NM 88240

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2

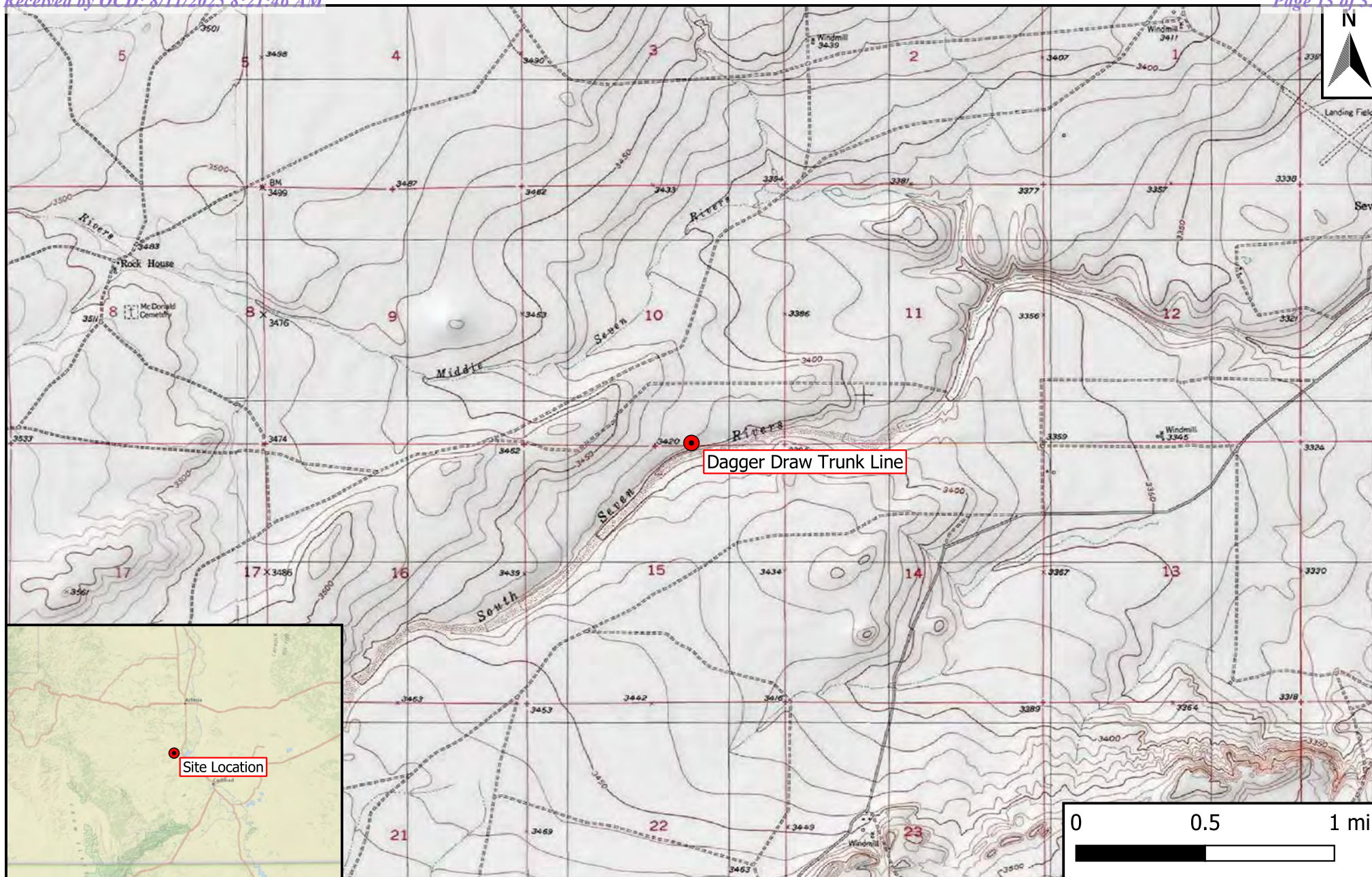
811 S. First Street

Artesia, NM 88210

(Electronic Submission)

Figure 1

Site Location Map



Legend

- Site Location

Figure 1
 Site Location Map
 Mewbourne Oil Company
 Dagger Draw Trunk Line
 GPS: 32.580784, -104.470355
 Eddy County, New Mexico



Drafted: bja

Checked: rlc

Date: 3/25/24

Figures 2A & 2B

Site Characterization Maps

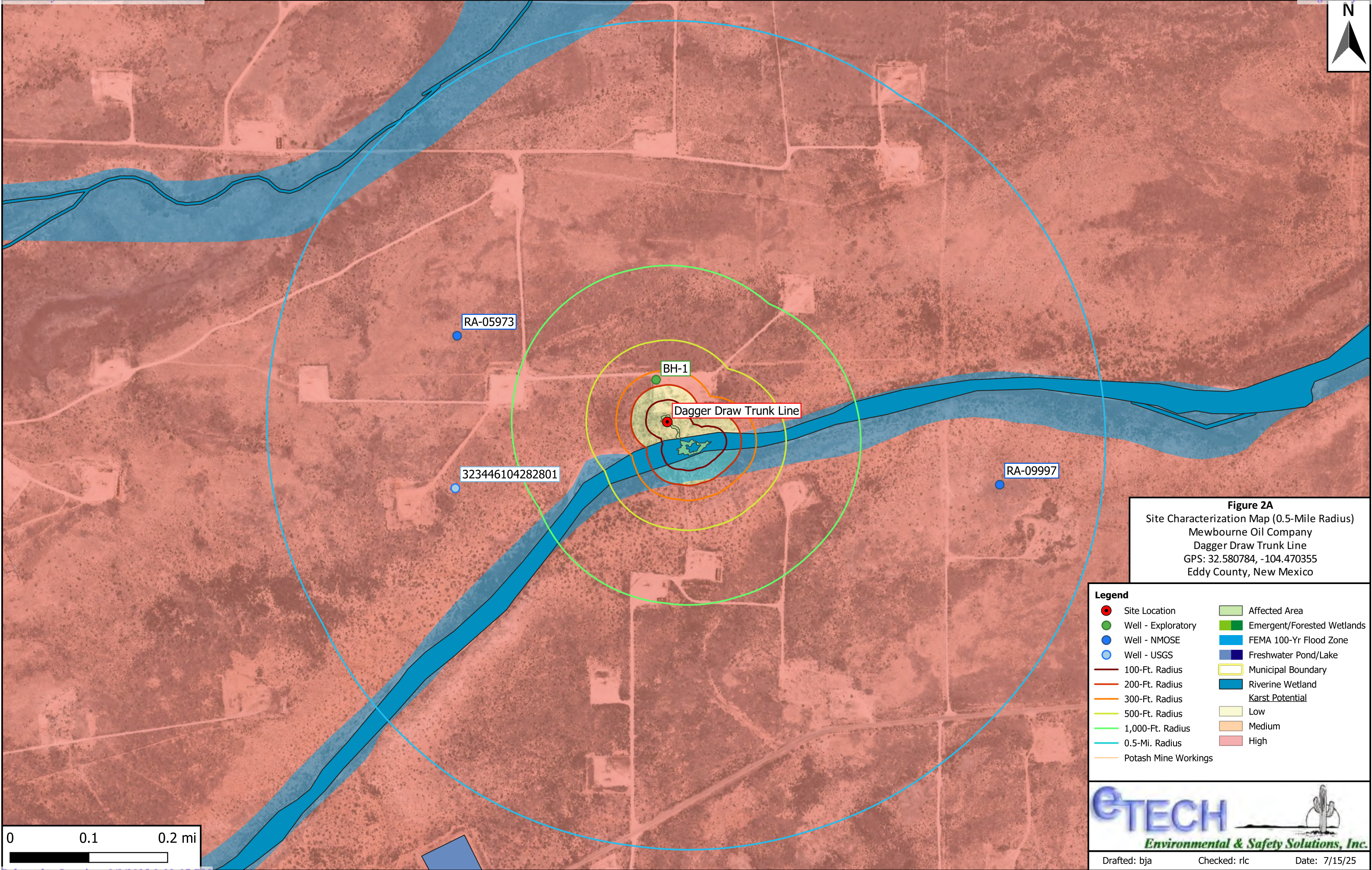


Figure 2A
Site Characterization Map (0.5-Mile Radius)
Mewbourne Oil Company
Dagger Draw Trunk Line
GPS: 32.580784, -104.470355
Eddy County, New Mexico

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



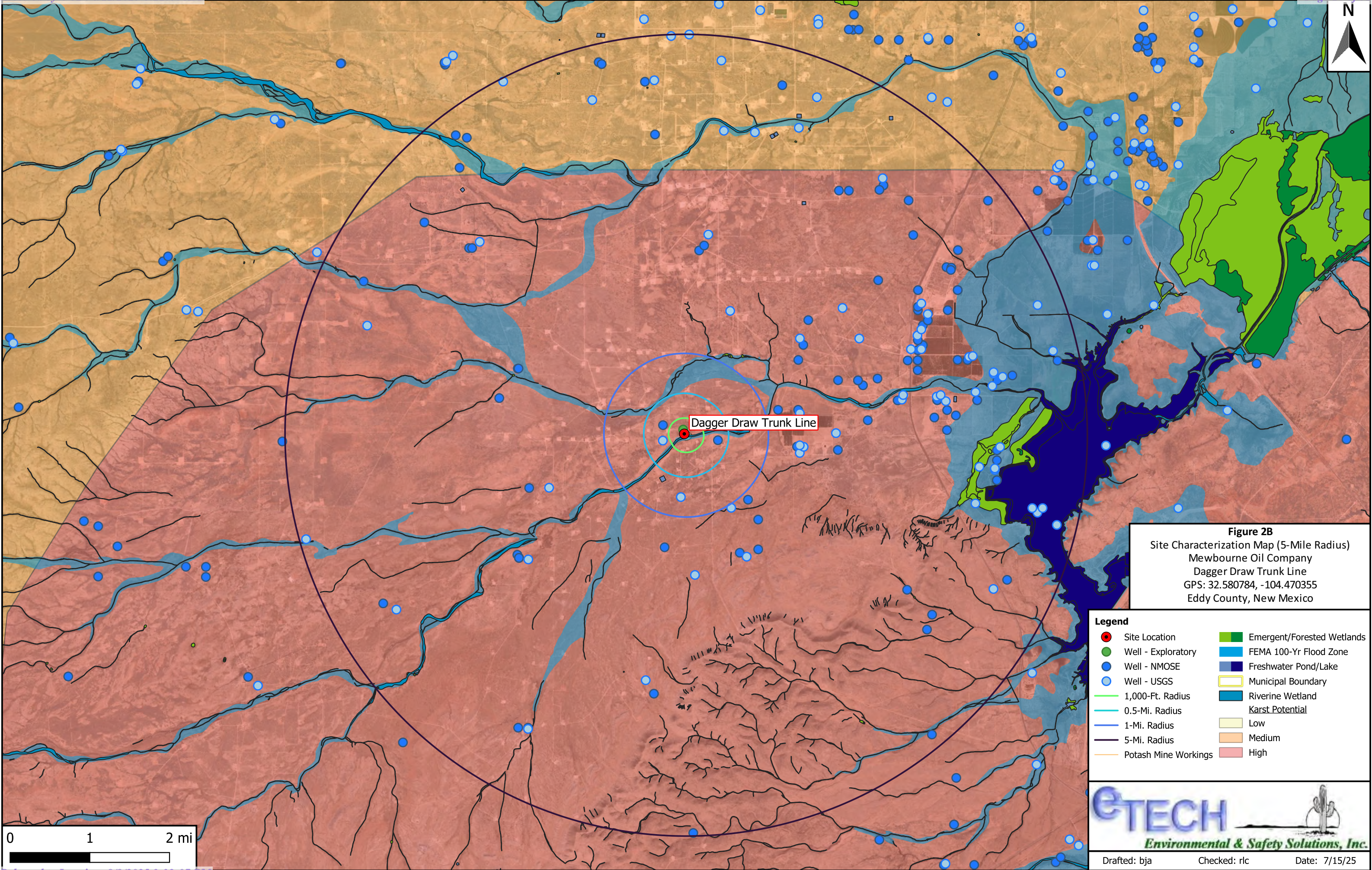
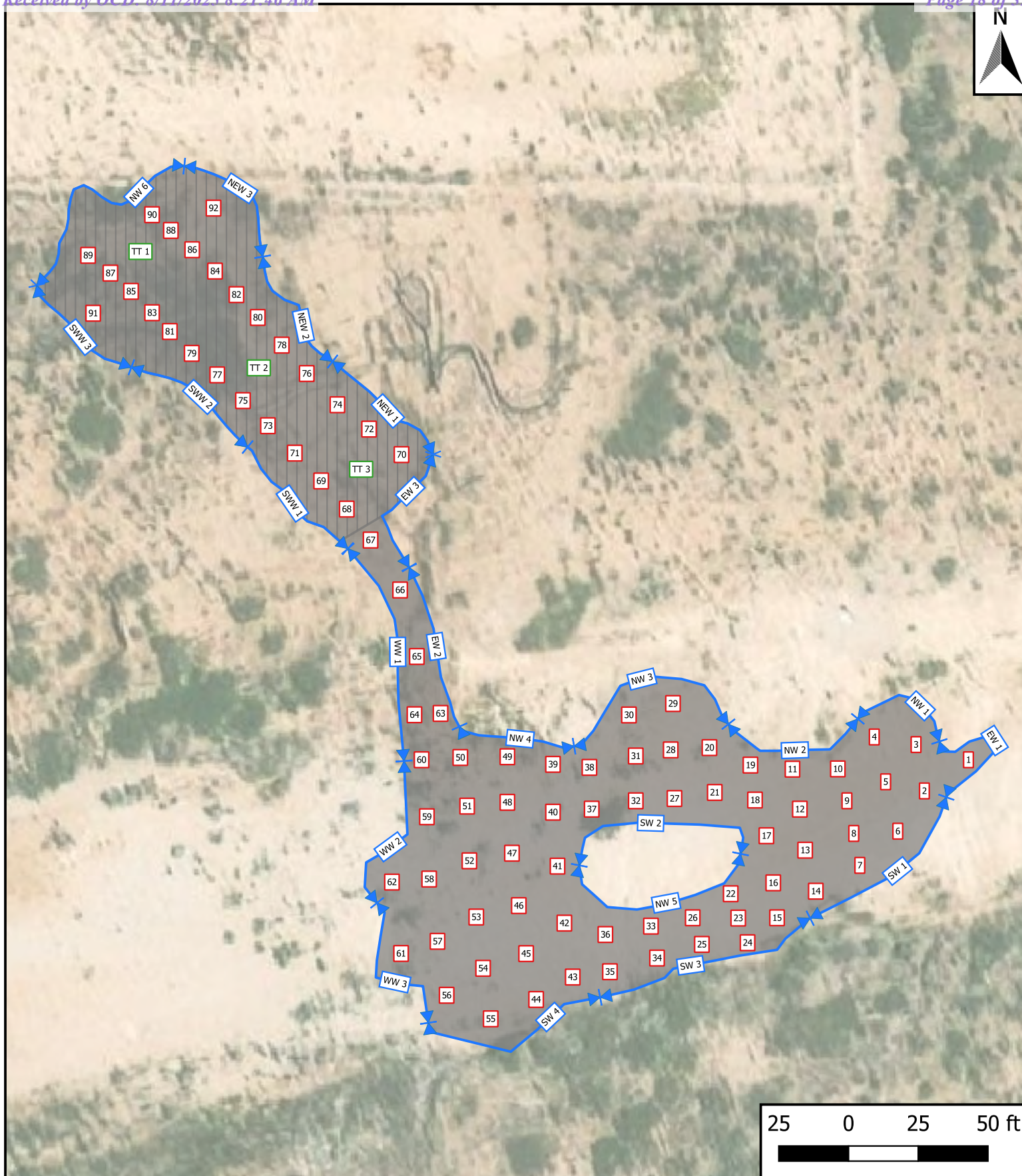


Figure 3

Sample Location Map



Legend

- Excavation Extent (~25,501 ft²)
- Clay Liner System (~8,273 ft²)
- Composite Floor Sample
- Composite Wall Sample
- Test Trench

Figure 3

Sample Location Map
 Mewbourne Oil Company
 Dagger Draw Trunk Line
 GPS: 32.580784, -104.470355
 Eddy County, New Mexico



Drafted: bja

Checked: lc

Date: 7/23/2025

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Dagger Draw Trunk Line
NMOCD Ref. #: nAPP2409454303

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 @ 8'	4/24/2024	8	D	Excavated	<0.050	<0.300	<10.0	12.7	12.7	<10.0	12.7	22,400
TT 1 @ 10'	4/24/2024	10	D	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	15,600
TT 1 @ 12'	4/24/2024	12	D	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16,000
TT 1 @ 14'	4/24/2024	14	D	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,330
TT 1 @ 16'	4/24/2024	16	D	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,000
TT 1 @ 18'	4/24/2024	18	D	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,080
TT 1 @ 20'	4/24/2024	20	D	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,400
TT 1 @ 22'	4/24/2024	22	D	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,930
TT 1 @ 24'	4/24/2024	24	D	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	9,060
TT 1 @ 26'	4/24/2024	26	D	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,360
TT 1 @ 28'	4/24/2024	28	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
TT 2 @ 8'	4/24/2024	8	D	Excavated	<0.050	<0.300	<10.0	30.6	30.6	<10.0	30.6	9,330
TT 2 @ 10'	4/24/2024	10	D	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,660
TT 2 @ 12'	4/24/2024	12	D	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,800
TT 2 @ 14'	4/24/2024	14	D	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,600
TT 2 @ 16'	4/24/2024	16	D	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,900
TT 2 @ 18'	4/24/2024	18	D	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	11,100
TT 2 @ 20'	4/24/2024	20	D	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,640
TT 2 @ 22'	4/24/2024	22	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
TT 3 @ 8'	4/24/2024	8	D	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	928
TT 3 @ 10'	4/24/2024	10	D	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,580
TT 3 @ 12'	4/24/2024	12	D	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,460
TT 3 @ 14'	4/24/2024	14	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
TT 3 @ 16'	4/24/2024	16	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 1 @ 3'	4/8/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 2 @ 4.5'	4/8/2024	4.5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 3 @ 3'	4/8/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 4 @ 3'	4/8/2024	3	C	In-Situ	<0.050	<0.300	<10.0	12.2	12.2	<10.0	12.2	192
FL 5 @ 3'	4/8/2024	3	C	In-Situ	<0.050	<0.300	<10.0	29.7	29.7	<10.0	29.7	368
FL 6 @ 4'	4/8/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 7 @ 3'	4/8/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FL 8 @ 5'	4/8/2024	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 9 @ 3'	4/8/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 10 @ 3'	4/8/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 11 @ 7'	4/10/2024	7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 12 @ 3'	4/8/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 13 @ 4'	4/8/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 14 @ 3'	4/8/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 15 @ 4.5'	4/8/2024	4.5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 16 @ 3'	4/8/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
FL 17 @ 3'	4/8/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 18 @ 3'	4/8/2024	3	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	736

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

Asterisk (*): Located beneath clay liner system.

A – Assessment F – Backfill

B – Background X – Deferral

C – Confirmation O – Other

D – Delineation

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Dagger Draw Trunk Line
NMOCD Ref. #: nAPP2409454303

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 18 @ 3.5'	4/16/2024	3.5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 19 @ 3'	4/8/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 20 @ 3'	4/8/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 21 @ 4'	4/8/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 22 @ 3'	4/8/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 23 @ 3'	4/8/2024	3	C	In-Situ	<0.050	<0.300	<10.0	10.1	10.1	<10.0	10.1	192
FL 24 @ 5'	4/9/2024	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 25 @ 3'	4/8/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 26 @ 3'	4/8/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 27 @ 2.5'	4/8/2024	2.5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 28 @ 2.5'	4/8/2024	2.5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 29 @ 2.5'	4/8/2024	2.5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 30 @ 8'	4/10/2024	8	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 31 @ 8'	4/10/2024	8	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 32 @ 3'	4/8/2024	3	C	In-Situ	<0.050	<0.300	<10.0	11.4	11.4	<10.0	11.4	112
FL 33 @ 2.5'	4/8/2024	2.5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 34 @ 3'	4/8/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 35 @ 5'	4/8/2024	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
FL 36 @ 2.5'	4/8/2024	2.5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 37 @ 5'	4/8/2024	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 38 @ 3'	4/8/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 39 @ 4'	4/8/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 40 @ 3'	4/8/2024	3	C	In-Situ	<0.050	<0.300	<10.0	19.5	19.5	<10.0	19.5	128
FL 41 @ 2'	4/8/2024	2	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 42 @ 6'	4/9/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 43 @ 2.5'	4/8/2024	2.5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 44 @ 4'	6/20/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 45 @ 4'	4/8/2024	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 46 @ 2.5'	4/8/2024	2.5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 47 @ 3'	4/8/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 48 @ 7.5'	4/10/2024	7.5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 49 @ 2.5'	4/8/2024	2.5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 50 @ 8'	4/10/2024	8	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 51 @ 8'	4/10/2024	8	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 52 @ 6'	4/11/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 53 @ 12.5	4/11/2024	12.5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 54 @ 7'	4/11/2024	7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 55 @ 11'	4/11/2024	11	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 56 @ 7'	4/11/2024	7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 57 @ 6'	4/11/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 58 @ 6'	4/11/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 59 @ 2'	4/11/2024	2	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

Asterisk (*): Located beneath clay liner system.

A – Assessment F – Backfill

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Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Dagger Draw Trunk Line NMOCD Ref. #: nAPP2409454303												
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 60 @ 3'	4/11/2024	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 61 @ 2'	4/11/2024	2	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 62 @ 2'	4/11/2024	2	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 63 @ 6'	4/11/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 64 @ 8'	4/11/2024	8	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 65 @ 6'	4/24/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 66 @ 6'	4/24/2024	6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 67 @ 8'	4/24/2024	8	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
FL 68 @ 8'	4/24/2024	8	C	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,090
FL 69 @ 8'	4/24/2024	8	C	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,150
FL 70 @ 8'	4/24/2024	8	C	In-Situ*	0.0700	8.27	47.3	11.3	58.6	<10.0	58.6	1,070
FL 71 @ 8'	4/24/2024	8	C	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,040
FL 72 @ 8'	4/24/2024	8	C	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,200
FL 73 @ 8'	4/24/2024	8	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,800
FL 74 @ 8'	4/24/2024	8	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,040
FL 75 @ 8'	4/24/2024	8	C	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,840
FL 76 @ 8'	4/24/2024	8	C	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	880
FL 77 @ 8'	4/24/2024	8	C	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,240
FL 78 @ 8'	4/24/2024	8	C	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,400
FL 79 @ 8'	4/24/2024	8	C	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	21,400
FL 80 @ 8'	4/24/2024	8	C	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	23,000
FL 81 @ 8'	4/24/2024	8	C	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,640
FL 82 @ 8'	4/24/2024	8	C	In-Situ*	<0.050	<0.300	<10.0	154	154	25.8	180	18,400
FL 83 @ 8'	4/24/2024	8	C	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,000
FL 84 @ 8'	4/24/2024	8	C	In-Situ*	<0.050	<0.300	<10.0	33.5	33.5	<10.0	33.5	9,000
FL 85 @ 8'	4/24/2024	8	C	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	12,000
FL 86 @ 8'	4/24/2024	8	C	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16,400
FL 87 @ 8'	4/24/2024	8	C	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,800
FL 88 @ 8'	4/24/2024	8	C	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	25,200
FL 89 @ 8'	4/24/2024	8	C	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	12,000
FL 90 @ 8'	4/24/2024	8	C	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	12,400
FL 91 @ 8'	4/24/2024	8	C	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,100
FL 92 @ 8'	4/24/2024	8	C	In-Situ*	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,480
NW 1	4/8/2024	0-3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 2	4/8/2024	0-7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 3	4/8/2024	0-8	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 4	4/8/2024	0-8	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 5	4/8/2024	0-5	C	In-Situ	<0.050	<0.300	<10.0	10.9	10.9	<10.0	10.9	224
NW 6	4/16/2024	0-8	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NEW 1	4/16/2024	0-8	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
NEW 2	4/16/2024	0-8	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NEW 3	4/16/2024	0-8	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

Asterisk (*): Located beneath clay liner system.

A – Assessment F – Backfill

B – Background X – Deferral

C – Confirmation O – Other

D – Delineation

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Dagger Draw Trunk Line
NMOCD Ref. #: nAPP2409454303

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 1	4/8/2024	0-3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 2	4/8/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
EW 3	4/8/2024	0-8	C	In-Situ	<0.050	<0.300	<10.0	66.9	66.9	<10.0	66.9	176
SW 1	4/8/2024	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 2	4/8/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 3	4/8/2024	0-5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SW 4	4/8/2024	0-11	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SWW 1	4/16/2024	0-8	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
SWW 2	4/16/2024	0-8	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
SWW 3	4/16/2024	0-8	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 1	4/8/2024	0-8	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
WW 2	4/8/2024	0-6	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 3	4/8/2024	0-7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
Stockton Backfill Pit	12/10/2024	N/A	F	Backfill	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

Asterisk (*): Located beneath clay liner system.

A – Assessment F – Backfill

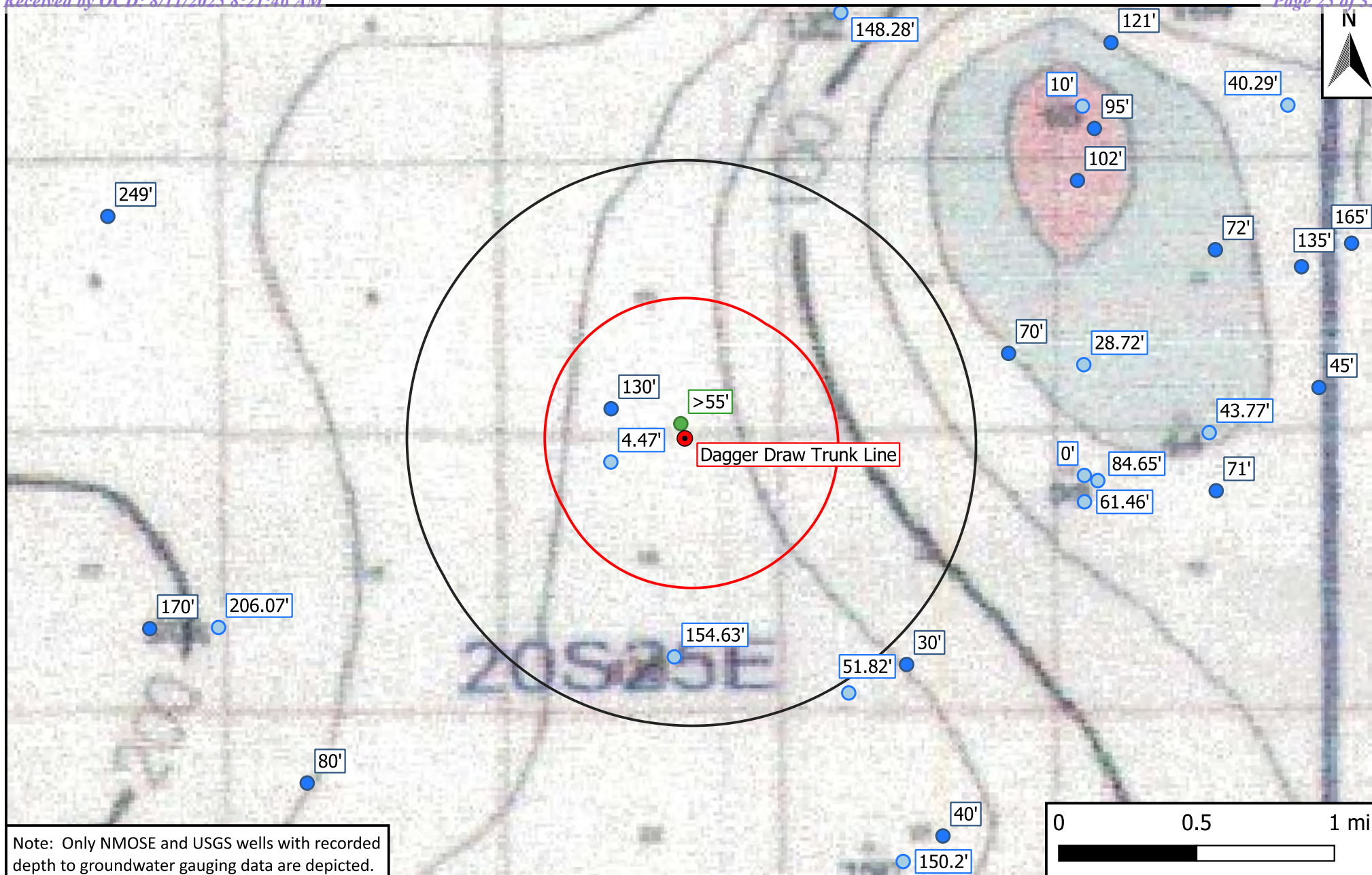
B – Background X – Deferral

C – Confirmation O – Other

D – Delineation

Appendix A

Depth to Groundwater Information



Legend

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

Figure 4

Inferred Depth to Groundwater Map
 Mewbourne Oil Company
 Dagger Draw Trunk Line
 GPS: 32.580784, -104.470355
 Eddy County, New Mexico


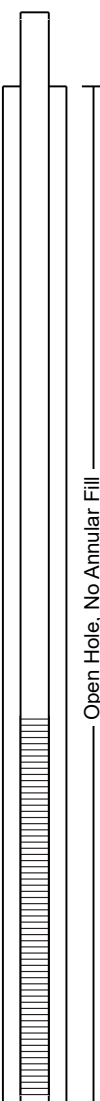














Drafted: bja

Checked: rlc

Date: 3/25/24

Soil Boring/Temporary Monitor Well BH-1

Company: Mewbourne Oil Company Site: Dagger Draw Trunk Line NMOCD Reference #: nAPP2409454303 Location: Eddy Co., NM PLSS: U/L "O", Sec. 10, T20S, R25E			Well/Borehole ID: BH-1 Coordinates (NAD 83): 32.58156,-104.47062 Drilling Date: 5/6/2024 Depth of Boring (ft): 55 Depth to Groundwater (ft): >55 Plugging Date: 5/9/2024			Drilling Company: H&R Enterprises, LLC Driller: Jim Hawley Drilling Method: Air Rotary Logged By: Jim Hawley Drafted By: Ben J. Arguijo Draft Date: 5/10/2024		
Completion: N/A			Casing: 2" PVC			Screen: 0.020" Slotted		
Comments: N/A								
Depth (ft)	Groundwater	Lithology	Material Description	Petroleum Odor	Petroleum Stain	PID Reading	Well Construction	
0			Topsoil 100%	N	N	-	 Open Hole, No Annular Fill	
5			Soft Caliche 100%	N	N	-		
10				N	N	-		
15			Sand 90% - Clay 10%	N	N	-		
20			Sand 50% - Red Clay 50%	N	N	-		
25				N	N	-		
30				N	N	-		
35				N	N	-		
40				N	N	-		
45			Grey Clay 60% - Sand 40%	N	N	-		
50			Red Clay 50% - Sand 50%	N	N	-		
55				N	N	-		
60			Notes: • Lines between material types represent approximate boundaries. Actual transitions may be gradual. • The exploratory soil boring was left open for over 72 hours. No indications of inflow and/or accumulation of water were noted during the advancement of the soil boring or prior to plugging and abandonment.					

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



New Mexico Office of the State Engineer

Water Column/Average Depth to Water


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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth	Well	Depth	Water Column
RA 05973		RA	ED	4	3	10	20S	25E		549280	3605111		501		200	130 70

Average Depth to Water: **130 feet**

Minimum Depth: **130 feet**

Maximum Depth: **130 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 549736.45

Northing (Y): 3604903.78

Radius: 804.67

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3/22/24 12:23 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
RA	05973	4	3	10	20S	25E	549280	3605111	

Driller License: 1532 **Driller Company:** HENRY TERPENING

Driller Name: TERPENING, HENRY

Drill Start Date: 02/21/1977 **Drill Finish Date:** 03/25/1977 **Plug Date:**

Log File Date: 05/10/1977 **PCW Rcv Date:** **Source:** Shallow

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

Casing Size: **Depth Well:** 200 feet **Depth Water:** 130 feet

Meter Number: 14130 **Meter Make:** MASTER

Meter Serial Number: GRR-26 **Meter Multiplier:** 100.0000

Number of Dials: 6 **Meter Type:** Diversion

Unit of Measure: Gallons **Return Flow Percent:**

Usage Multiplier: **Reading Frequency:**

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
07/15/2010	2010	0	A	sj		0
07/15/2010	2010	3111	A	sj		0.955

****YTD Meter Amounts:**

Year	Amount
2010	0.955

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.

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- 323446104282801

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Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°34'46", Longitude 104°28'28" NAD27

Land-surface elevation 3,427 feet above NAVD88

The depth of the well is 383 feet below land surface.

This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

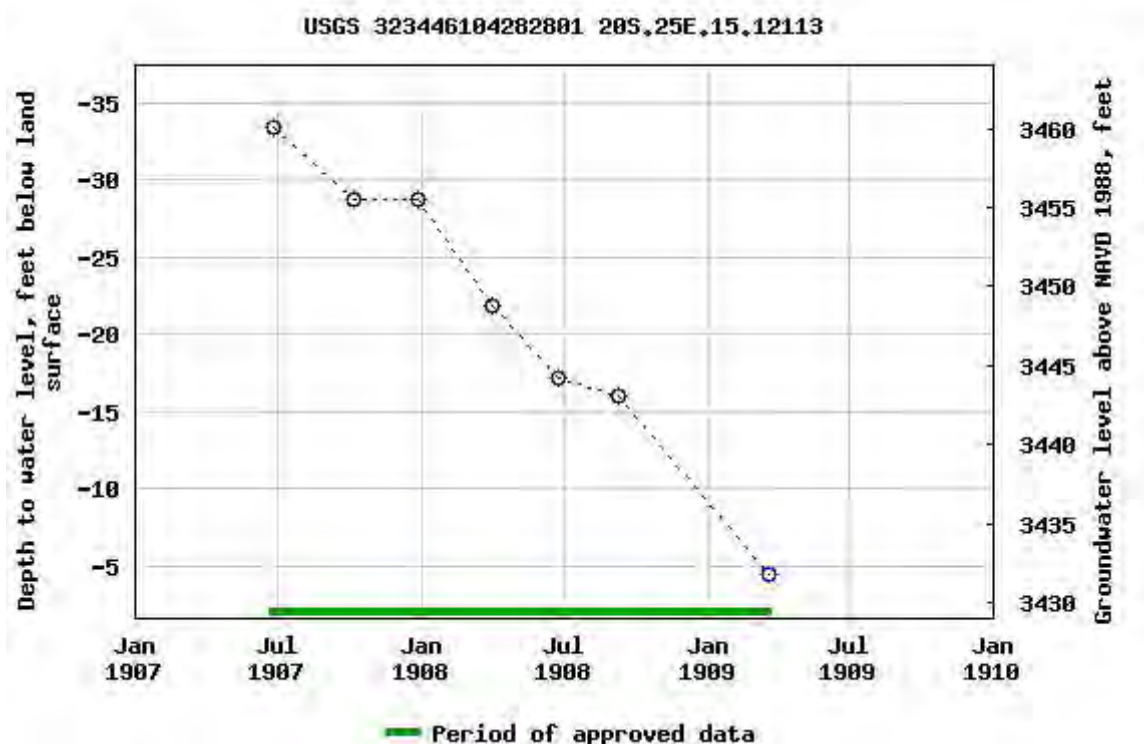
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USGS 323409104281401 20S.25E.15.34222

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°34'09", Longitude 104°28'14" NAD27

Land-surface elevation 3,436 feet above NAVD88

The depth of the well is 600 feet below land surface.

This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Artesia Group (313ARTS) local aquifer.

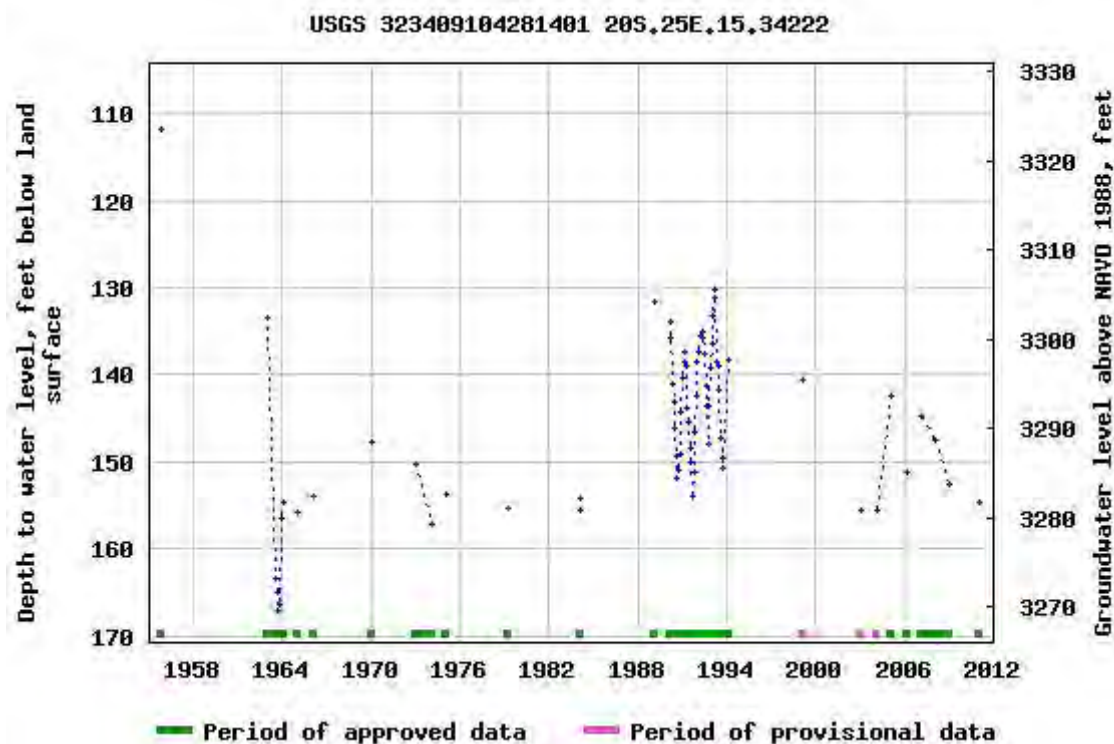
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Appendix B

Field Data



Sample Log

Date: _____

Project: Dagger Draw Trunk Line

Project Number: 20174

Latitude: 32.580475

Longitude: -104.470077

Sample ID	PID/Odor	Chloride Conc.	Pid	GPS
NW test	Light	3168	EW 2	660
FL test	Strong	228	Floor test	2840
FL test	-	2480	Floor test	2840
EW-1	-	228 ★	EW test	716
NW-1	-	412 ★	FL-9 @ 2 1/2	Strong 6.624
FL-1 @ 2 1/2	-	1056	FL-10 @ 2 1/2	Strong 6.624
FL-2 @ 2 1/2	-	990	Floor test	11.32
FL-3 @ 2 1/2	-	1312	NW test	604
SW-1	Strong	368	EW test	332
SW1	Light	604	East Floor test	412
NW test	-	1732	West Floor test	368
SW test	Strong	2480	NW 3	292
SW 1	-	1312	NW 4	172
NW test	Strong	1992	FL-11 @ 2 1/2	-
SW test	-	990	FL-12 @ 2 1/2	-
FL-5 @ 2 1/2	Strong/Gas	2480	FL-13 @ 2 1/2	-
FL-4 @ 2 1/2	-	2490		
SW test	-	908		
SW test	-	604		
SW-1	-	412 ★		
SW test	Strong/Gas	2840		
NWest wall test	-	292		
NW test	Dirt-	716		
FL-6 @ 2 1/2	Strong/Gas	1860		
FL-7 @ 2 1/2	Light/Gas	1196		
FL-8 @ 2 1/2	Strong/Gas	2840		
SW test	-	840		
SW-2	-	1860		
NW-2	-	260 ★		
NW 3	/Gas	552		
SW3 test	Light? Gas	368 ★		
EW 2	-	368 ★		
NW1	-	412 ★		
NW 3	-	2840		
NW test	-	604		
West wall Floor	-	9084		

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 Area



Sample Log

Date: _____

Project: _____

Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL 11 @ 5'	6.8 NONE	1,616	
FL 24 @ 5'	3.8 NONE	552	
FL 30 @ 6'	7.8 Light	2,480	
FL 31 @ 6'	7.2 Light	1,956	
FL 42 @ 6'	3.4 NONE	452	
FL 48 @ 6'	7.8 Light	2,480	
FL 51 @ 6'	5.0 Light	896	
FL 50 @ 7'	5.0 NONE	896	
FL 48 @ 6 1/2'	7.8 Light	2,480	
FL 51 @ 6 1/2'	5.6 NONE	1,116	
FL 11 @ 5 1/2'	6.0 NONE	1,284	
FL 30 @ 6 1/2'	6.0 Light	1,284	
FL 31 @ 6 1/2'	4.2 NONE	652	
FL 48 @ 7'	7.8 NONE	2,480	
FL 50 @ 7 1/2'	6.6 NONE	1,572	
FL 51 @ 7'	4.4 NONE	712	
FL 11 @ 6'	6.0 NONE	1,284	
FL 30 @ 7'	7.8 NONE	2,480	
FL 31 @ 7'	4.7 NONE	652	
FL 51 @ 7 1/2'	5.0 NONE	896	
FL 11 @ 6 1/2'	NONE	2,296	
FL 30 @ 7 1/2'	NONE	1,192	
FL 31 @ 7 1/2'	NONE	2,476	
FL 51 @ 8'	NONE	208	
FL 48 @ 7 1/2'	NONE	176	
FL 30 @ 8'	NONE	312	
FL 31 @ 8'	NONE	208	
FL 50 @ 8'	NONE	352	
FL 11 @ 7'	NONE	176	
FL 52 @ 2'	Strong	2,984	
FL 53 @ 2'	Light	4,184	
FL 54 @ 2'	NONE	4,128	
FL 55 @ 2'	Strong	3,816	
FL 52 @ 3'	Light	2,304	
FL 53 @ 3'	Strong	3,520	
FL 54 @ 3'	Strong	4,092	
		4,468	

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

FL-52@4' - 892

FL-53@4' - 2476

FL-54@4' - 1,404

FL-55@4' - 964

4.8

5.6

5.0

5.4

FL-67@8' - 552

FL-68@8' - 1,136

FL-69@8' - 604

FL-70@8' - 2,480

FL-71@8' - 980

FL-72@8' - 1,136

FL-73@8' - 1,508

FL-74@8' - 1,136

FL-75@8' - 2,480

FL-76@8' - 2,480

FL-77@8' - 2,140

FL-78@8' - 1,732

FL-79@8' - 1,860

FL-80@8' - 1,508

FL-81@8' - 1,312

FL-82@8' - 1,732

FL-83@8'-3,520

FL-84@8'-2,984

FL-85@8'-4,128

FL-86@8'-3,168

FL-87@8'-4,448

FL-88@8'-3,520

FL-89@8'-3,768

FL-90@8'-2,984

FL-91@8'-4,128


FL-92@8'-4,824

Appendix C

Photographic Log

Photographic Log

Photo Number: 1	
Photo Direction: West	
Photo Description: Point of release.	

Photo Number: 2	
Photo Direction: Southwest	
Photo Description: View of the affected area.	

Photographic Log




Photo Number: 3	 <p>22Mar24 10:20 MOC Trunk Line Artesia NM 88210, United States © 22-Mar-24 10:20:59</p>
Photo Direction: Northwest	
Photo Description: View of the affected area.	

Photo Number: 4	 <p>22Mar24 10:21 MOC Trunk Line Artesia NM 88210, United States © 22-Mar-24 10:21:07</p>
Photo Direction: Southeast	
Photo Description: View of the affected area.	

Photographic Log

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

Photo Number: 6	
Photo Direction: East-Northeast	
Photo Description: View of the affected area.	

Photographic Log



Photo Number: 9	
Photo Direction: Overhead/Bird's Eye	
Coordinates: 32.580793,-104.470289	
Date Taken: 4/24/2024	
Photo Description: Aerial view of the Upper Excavation.	

Photo Number: 10	
Photo Direction: Overhead/Bird's Eye	
Coordinates: 32.580309,-104.469819	
Date Taken: 4/24/2024	
Photo Description: Aerial view of the Lower Excavation, arroyo, and bluff.	

Photographic Log



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

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

Photographic Log

Photo Number: 13	
Photo Direction: South-Southeast	
Photo Description: View of the excavated area.	

Photo Number: 14	
Photo Direction: South	
Photo Description: View of the excavated area.	

Photographic Log




Photo Number: 15	
Photo Direction: South-Southwest	
Photo Description: View of the excavated area.	

Photo Number: 16	
Photo Direction: North-Northeast	
Photo Description: View of the excavated area.	


Photographic Log

Photo Number: 17	
Photo Direction: Southeast	
Photo Description: View of the excavated area.	

Photo Number: 18	
Photo Direction: South	
Photo Description: View of the bentonliner.	

Photographic Log

Photo Number: 19	
Photo Direction: West-Northwest	
Photo Description: View of the bentonliner.	

Photo Number: 20	
Photo Direction: Southeast	
Photo Description: View of the bentonliner.	

Photographic Log

Photo Number: 21	
Photo Direction: East-Northeast	
Photo Description: View of clay layer placement.	

Photo Number: 22	
Photo Direction: East	
Photo Description: View of clay layer placement.	

Photographic Log

Photo Number: 23	<div>4/16/25, 11:04 AM +32.581012,-104.470227 ±3.54m 185° S Eddy County</div> 
Photo Direction: South	
Photo Description: View of the clay liner system.	

Photo Number: 24	<div>4/15/25, 1:16 PM +32.580967,-104.470580 ±4.76m 188° S Eddy County</div> 
Photo Direction: South	
Photo Description: View of the clay liner system prior to backfilling.	

Photographic Log

Photo Number: 25	 <p>4/25/25, 1:45 PM +32.580972,-104.470023 ±26.11m 197° S Eddy County</p>
Photo Direction: South-Southwest	
Photo Description: View of the backfilled Lower Excavation (in background).	

Photo Number: 26	 <p>4/25/25, 1:45 PM +32.580972,-104.470023 ±26.11m 229° SW Eddy County</p>
Photo Direction: Southwest	
Photo Description: View of the backfilled Lower Excavation (in background).	

Photographic Log



Photo Number: 27	
Photo Direction: South-Southeast	
Photo Description: View of the backfilled Upper Excavation following seeding event.	

Photo Number: 28	
Photo Direction: Southeast	
Photo Description: View of the backfilled Upper Excavation following seeding event.	

Photographic Log

Photo Number: 29	
Photo Direction: N/A	
Photo Description: Seed tag #1.	

Bamert Seed Company Inc.

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

Dagger Draw Trunk Line NMSLO Loamy Mix Lot/Sales # 50-86144

Broadcast Rate

Kind & Variety	Pure Seed	Germ	Dormant	Hard Seed	Origin
Bluestem, Little "Cimarron" (Schizachyrium scoparium)	9.89%	58.00%	36.00%	0.00%	TX
Dropsseed, Sand (Sporobolus cryptandrus)	12.76%	27.00%	70.00%	0.00%	TX
Grams, Blue "Lovington" (Bouteloua Gracilis)	12.64%	98.00%	0.00%	0.00%	TX
Grams, Sidecats "El Reno" (Bouteloua curtipendula)	25.31%	97.00%	1.00%	0.00%	TX
Indian Blanket (Gaillardia pulchella)	7.04%	88.00%	0.00%	0.00%	OK
Sacaton Alkali (Sporobolus airoides)	6.46%	91.00%	5.00%	0.00%	OK
Saltbush Fourwing (Atriplex canescens)	9.69%	96.00%	0.00%	0.00%	NM

Purity: 83.81% Inert Matter: 16.15% Other Crop Seed: 0.01% Weed Seed: 0.02%

Noxious Weed Seed Per/Lb: None Test Date: 05/2025 Net Wt: 40 lbs

Photo Number: 30	
Photo Direction: N/A	
Photo Description: Seed tag #2.	

Bamert Seed Company Inc.

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

Dagger Draw Trunk Line NMSLO Loamy Mix Lot/Sales # 50-86144

Broadcast Rate

Kind & Variety	Pure Seed	Germ	Dormant	Hard Seed	Origin
Bluestem, Little "Cimarron" (Schizachyrium scoparium)	9.89%	58.00%	36.00%	0.00%	TX
Dropsseed, Sand (Sporobolus cryptandrus)	12.76%	27.00%	70.00%	0.00%	TX
Grams, Blue "Lovington" (Bouteloua Gracilis)	12.64%	98.00%	0.00%	0.00%	TX
Grams, Sidecats "El Reno" (Bouteloua curtipendula)	25.31%	97.00%	1.00%	0.00%	TX
Indian Blanket (Gaillardia pulchella)	7.04%	88.00%	0.00%	0.00%	OK
Sacaton Alkali (Sporobolus airoides)	6.46%	91.00%	5.00%	0.00%	OK
Saltbush Fourwing (Atriplex canescens)	9.69%	96.00%	0.00%	0.00%	NM

Purity: 83.81% Inert Matter: 16.15% Other Crop Seed: 0.01% Weed Seed: 0.02%

Noxious Weed Seed Per/Lb: None Test Date: 05/2025 Net Wt: 8.8 lbs

Photographic Log

Photo Number: 31	
Photo Direction: East-Southeast	
Photo Description: View of the Upper Excavation showing progress of revegetation.	

Photo Number: 32	
Photo Direction: Southeast	
Photo Description: View of the Upper Excavation showing progress of revegetation.	

Appendix D

Laboratory Analytical Reports



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

April 11, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: DAGGER DRAW TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/08/24 14:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 1 @ 3' (H241811-01)

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	04/09/2024	ND	1.99	99.3	2.00	0.557	
Toluene*	<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989	
Total BTX	<0.300	0.300	04/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/10/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2024	ND	231	116	200	2.26	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	225	113	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 2 @ 4.5' (H241811-02)

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	04/09/2024	ND	1.99	99.3	2.00	0.557		
Toluene*	<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989		
Total BTEX	<0.300	0.300	04/09/2024	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	04/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2024	ND	231	116	200	2.26	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	225	113	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 3 @ 3' (H241811-03)

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	04/09/2024	ND	1.99	99.3	2.00	0.557		
Toluene*	<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989		
Total BTEX	<0.300	0.300	04/09/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	04/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2024	ND	231	116	200	2.26	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	225	113	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 4 @ 3' (H241811-04)

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	04/09/2024	ND	1.99	99.3	2.00	0.557		
Toluene*	<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989		
Total BTEX	<0.300	0.300	04/09/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	04/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2024	ND	231	116	200	2.26	
DRO >C10-C28*	12.2	10.0	04/09/2024	ND	225	113	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 69.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.0 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 5 @ 3' (H241811-05)

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	04/09/2024	ND	1.99	99.3	2.00	0.557		
Toluene*	<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989		
Total BTEX	<0.300	0.300	04/09/2024	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	368	16.0	04/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2024	ND	231	116	200	2.26	
DRO >C10-C28*	29.7	10.0	04/09/2024	ND	225	113	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 6 @ 4' (H241811-06)

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	04/09/2024	ND	1.99	99.3	2.00	0.557		
Toluene*	<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989		
Total BTEX	<0.300	0.300	04/09/2024	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	176	16.0	04/10/2024	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	04/09/2024	ND	231	116	200	2.26	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	225	113	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 7 @ 3' (H241811-07)

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	04/09/2024	ND	1.99	99.3	2.00	0.557		
Toluene*	<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989		
Total BTEX	<0.300	0.300	04/09/2024	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	368	16.0	04/10/2024	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	04/09/2024	ND	231	116	200	2.26	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	225	113	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 8 @ 5' (H241811-08)

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	04/09/2024	ND	1.99	99.3	2.00	0.557		
Toluene*	<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989		
Total BTEX	<0.300	0.300	04/09/2024	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	144	16.0	04/10/2024	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	04/09/2024	ND	231	116	200	2.26	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	225	113	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 72.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 9 @ 3' (H241811-09)

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	04/09/2024	ND	1.99	99.3	2.00	0.557		
Toluene*	<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989		
Total BTEX	<0.300	0.300	04/09/2024	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	04/10/2024	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	04/09/2024	ND	231	116	200	2.26	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	225	113	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 81.6 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 10 @ 3' (H241811-10)

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	04/09/2024	ND	1.99	99.3	2.00	0.557		
Toluene*	<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989		
Total BTEX	<0.300	0.300	04/09/2024	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	144	16.0	04/10/2024	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	04/09/2024	ND	231	116	200	2.26	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	225	113	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 49.1-148

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Analytical Results For:

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

Received: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 12 @ 3' (H241811-11)

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	04/09/2024	ND	1.99	99.3	2.00	0.557		
Toluene*	<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989		
Total BTEX	<0.300	0.300	04/09/2024	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	04/10/2024	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	04/09/2024	ND	231	116	200	2.26	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	225	113	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 72.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.5 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 13 @ 4' (H241811-12)

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	04/09/2024	ND	1.99	99.3	2.00	0.557		
Toluene*	<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989		
Total BTEX	<0.300	0.300	04/09/2024	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	32.0	16.0	04/10/2024	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	04/09/2024	ND	231	116	200	2.26	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	225	113	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 72.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 14 @ 3' (H241811-13)

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	04/09/2024	ND	1.99	99.3	2.00	0.557		
Toluene*	<0.050	0.050	04/09/2024	ND	2.00	99.9	2.00	1.76		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	1.94	97.0	2.00	1.63		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	5.91	98.4	6.00	0.989		
Total BTEX	<0.300	0.300	04/09/2024	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	04/10/2024	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	04/09/2024	ND	231	116	200	2.26	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	225	113	200	0.829	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 15 @ 4.5' (H241811-14)

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	04/09/2024	ND	2.12	106	2.00	0.210		
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15		
Total BTEX	<0.300	0.300	04/09/2024	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	352	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 79.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.1 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 16 @ 3' (H241811-15)

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	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.9 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 17 @ 3' (H241811-16)

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	04/09/2024	ND	2.12	106	2.00	0.210		
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15		
Total BTEX	<0.300	0.300	04/09/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 18 @ 3' (H241811-17)

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	04/09/2024	ND	2.12	106	2.00	0.210		
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15		
Total BTEX	<0.300	0.300	04/09/2024	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	736	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 19 @ 3' (H241811-18)

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	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

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Analytical Results For:

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

Received: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 20 @ 3' (H241811-19)

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	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.3 % 49.1-148

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Analytical Results For:

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

Received: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 21 @ 4' (H241811-20)

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	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 22 @ 3' (H241811-21)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.8 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 23 @ 3' (H241811-22)

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	04/09/2024	ND	2.12	106	2.00	0.210		
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15		
Total BTEX	<0.300	0.300	04/09/2024	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	192	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	10.1	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 25 @ 3' (H241811-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2024	ND	2.12	106	2.00	0.210		
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15		
Total BTEX	<0.300	0.300	04/09/2024	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	112	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 69.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.9 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 26 @ 3' (H241811-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2024	ND	2.12	106	2.00	0.210		
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15		
Total BTEX	<0.300	0.300	04/09/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.1 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 27 @ 2.5' (H241811-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2024	ND	2.12	106	2.00	0.210		
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15		
Total BTEX	<0.300	0.300	04/09/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 78.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 28 @ 2.5' (H241811-26)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	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	208	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 66.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.7 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 29 @ 2.5' (H241811-27)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2024	ND	2.12	106	2.00	0.210		
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15		
Total BTEX	<0.300	0.300	04/09/2024	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	48.0	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 76.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.9 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 32 @ 3' (H241811-28)

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	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	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	112	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	11.4	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.9 % 49.1-148

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Analytical Results For:

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

Received: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 33 @ 2.5' (H241811-29)

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	04/09/2024	ND	2.12	106	2.00	0.210		
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15		
Total BTEX	<0.300	0.300	04/09/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 75.8 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 34 @ 3' (H241811-30)

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	04/09/2024	ND	2.12	106	2.00	0.210		
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15		
Total BTEX	<0.300	0.300	04/09/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 35 @ 5' (H241811-31)

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	04/09/2024	ND	2.12	106	2.00	0.210	
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15	
Total BTEX	<0.300	0.300	04/09/2024	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	496	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 36 @ 2.5' (H241811-32)

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	04/09/2024	ND	2.12	106	2.00	0.210		
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15		
Total BTEX	<0.300	0.300	04/09/2024	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	32.0	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 37 @ 5' (H241811-33)

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	04/09/2024	ND	2.12	106	2.00	0.210		
Toluene*	<0.050	0.050	04/09/2024	ND	2.24	112	2.00	2.37		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.29	115	2.00	2.87		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	6.84	114	6.00	3.15		
Total BTEX	<0.300	0.300	04/09/2024	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	48.0	16.0	04/10/2024	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	04/09/2024	ND	243	122	200	2.21	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	238	119	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.6 % 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:	04/08/2024	Sampling Date:	04/08/2024
Reported:	04/11/2024	Sampling Type:	Soil
Project Name:	DAGGER DRAW TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	20174	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - 32.580475,-104.470077		

Sample ID: FL 38 @ 3' (H241811-34)

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	04/09/2024	ND	2.25	113	2.00	4.37		
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31		
Total BTEX	<0.300	0.300	04/09/2024	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	48.0	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.9 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 39 @ 4' (H241811-35)

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	04/09/2024	ND	2.25	113	2.00	4.37		
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31		
Total BTEX	<0.300	0.300	04/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 131 % 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	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 75.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.2 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 40 @ 3' (H241811-36)

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	04/09/2024	ND	2.25	113	2.00	4.37	
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31	
Total BTEx	<0.300	0.300	04/09/2024	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	128	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	19.5	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.0 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 41 @ 2' (H241811-37)

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	04/09/2024	ND	2.25	113	2.00	4.37	
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31	
Total BTEX	<0.300	0.300	04/09/2024	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	48.0	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 61.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 59.4 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 43 @ 2.5' (H241811-38)

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	04/09/2024	ND	2.25	113	2.00	4.37		
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31		
Total BTEX	<0.300	0.300	04/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 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	384	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 77.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.0 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 45 @ 4' (H241811-39)

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	04/09/2024	ND	2.25	113	2.00	4.37	
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31	
Total BTEX	<0.300	0.300	04/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 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	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 79.5 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 46 @ 2.5' (H241811-40)

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	04/09/2024	ND	2.25	113	2.00	4.37		
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31		
Total BTEX	<0.300	0.300	04/09/2024	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	144	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.1 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 47 @ 3' (H241811-41)

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	04/09/2024	ND	2.25	113	2.00	4.37	
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31	
Total BTEX	<0.300	0.300	04/09/2024	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	160	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.7 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 49 @ 2.5' (H241811-42)

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	04/09/2024	ND	2.25	113	2.00	4.37		
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31		
Total BTEX	<0.300	0.300	04/09/2024	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	160	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 49.1-148

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Analytical Results For:

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

Received: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 1 (H241811-43)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2024	ND	2.25	113	2.00	4.37		
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31		
Total BTEX	<0.300	0.300	04/09/2024	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	32.0	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 75.5 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 2 (H241811-44)

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	04/09/2024	ND	2.25	113	2.00	4.37		
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31		
Total BTEX	<0.300	0.300	04/09/2024	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	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.1 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 3 (H241811-45)

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	04/09/2024	ND	2.25	113	2.00	4.37		
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31		
Total BTEX	<0.300	0.300	04/09/2024	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	16.0	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 57.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 52.4 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 4 (H241811-46)

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	04/09/2024	ND	2.25	113	2.00	4.37		
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31		
Total BTEX	<0.300	0.300	04/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 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	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.3 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 5 (H241811-47)

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	04/09/2024	ND	2.25	113	2.00	4.37		
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31		
Total BTEX	<0.300	0.300	04/09/2024	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	224	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	10.9	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.9 % 49.1-148

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Analytical Results For:

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

Received: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 1 (H241811-48)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2024	ND	2.25	113	2.00	4.37		
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31		
Total BTEX	<0.300	0.300	04/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 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	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 76.2 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 2 (H241811-49)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2024	ND	2.25	113	2.00	4.37		
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31		
Total BTEX	<0.300	0.300	04/09/2024	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	32.0	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 72.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.2 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 3 (H241811-50)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2024	ND	2.25	113	2.00	4.37		
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31		
Total BTEX	<0.300	0.300	04/09/2024	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	160	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.8 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 4 (H241811-51)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2024	ND	2.25	113	2.00	4.37		
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31		
Total BTEX	<0.300	0.300	04/09/2024	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	32.0	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.1 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 1 (H241811-52)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2024	ND	2.25	113	2.00	4.37	
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31	
Total BTEX	<0.300	0.300	04/09/2024	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	32.0	16.0	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.0 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 2 (H241811-53)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2024	ND	2.25	113	2.00	4.37		
Toluene*	<0.050	0.050	04/09/2024	ND	2.31	116	2.00	3.01		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.35	117	2.00	0.473		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.09	118	6.00	1.31		
Total BTEX	<0.300	0.300	04/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 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	04/10/2024	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	04/09/2024	ND	223	111	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	226	113	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 69.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.5 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 3 (H241811-54)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2024	ND	1.99	99.4	2.00	1.39		
Toluene*	<0.050	0.050	04/09/2024	ND	2.29	114	2.00	6.66		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.42	121	2.00	8.48		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.29	122	6.00	9.03		
Total BTEX	<0.300	0.300	04/09/2024	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	176	16.0	04/10/2024	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	04/09/2024	ND	212	106	200	2.43	
DRO >C10-C28*	66.9	10.0	04/09/2024	ND	203	102	200	0.231	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 75.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.6 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 1 (H241811-55)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2024	ND	1.99	99.4	2.00	1.39		
Toluene*	<0.050	0.050	04/09/2024	ND	2.29	114	2.00	6.66		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.42	121	2.00	8.48		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.29	122	6.00	9.03		
Total BTEX	<0.300	0.300	04/09/2024	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	480	16.0	04/10/2024	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	04/09/2024	ND	212	106	200	2.43	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	203	102	200	0.231	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 68.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.0 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 2 (H241811-56)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2024	ND	1.99	99.4	2.00	1.39		
Toluene*	<0.050	0.050	04/09/2024	ND	2.29	114	2.00	6.66		
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.42	121	2.00	8.48		
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.29	122	6.00	9.03		
Total BTEX	<0.300	0.300	04/09/2024	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	32.0	16.0	04/10/2024	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	04/09/2024	ND	212	106	200	2.43	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	203	102	200	0.231	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 58.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 50.5 % 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: 04/08/2024
 Reported: 04/11/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE - 32.580475,-104.470077

Sampling Date: 04/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 3 (H241811-57)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2024	ND	1.99	99.4	2.00	1.39	
Toluene*	<0.050	0.050	04/09/2024	ND	2.29	114	2.00	6.66	
Ethylbenzene*	<0.050	0.050	04/09/2024	ND	2.42	121	2.00	8.48	
Total Xylenes*	<0.150	0.150	04/09/2024	ND	7.29	122	6.00	9.03	
Total BTEX	<0.300	0.300	04/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/10/2024	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	04/09/2024	ND	212	106	200	2.43	
DRO >C10-C28*	<10.0	10.0	04/09/2024	ND	203	102	200	0.231	
EXT DRO >C28-C36	<10.0	10.0	04/09/2024	ND					

Surrogate: 1-Chlorooctane 66.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 58.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.						BILL TO				ANALYSIS REQUEST																				
Project Manager: Lance Crenshaw						P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																				
Address: 2617 West Marland						Company Mewbourne																								
City: Hobbs State: NM Zip: 88240						Attn: Connor Walker																								
Phone #: (575) 264-9884 Fax #:						Address:																								
Project #: 20174 Project Owner: Mewbourne						City:																								
Project Name: Dagger Draw Trunk Line						State: NM Zip:																								
Project Location: 32.580475, -104.470077						Phone #:																								
Sampler Name: Aaron Rios						Fax #:																								
FOR LAB USE ONLY																														
Lab I.D.		Sample I.D.				(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL :	OTHER :	DATE	TIME												
H241811						C	1		X				X			4/8/24		X	X	X										
2	FL 1 @ 3'					C	1		X				X			4/8/24		X	X	X										
3	FL 2 @ 4.5'					C	1		X				X			4/8/24		X	X	X										
4	FL 3 @ 3'					C	1		X				X			4/8/24		X	X	X										
5	FL 4 @ 3'					C	1		X				X			4/8/24		X	X	X										
6	FL 5 @ 3'					C	1		X				X			4/8/24		X	X	X										
7	FL 6 @ 4'					C	1		X				X			4/8/24		X	X	X										
8	FL 7 @ 3'					C	1		X				X			4/8/24		X	X	X										
9	FL 8 @ 5'					C	1		X				X			4/8/24		X	X	X										
10	FL 9 @ 3'					C	1		X				X			4/8/24		X	X	X										
	FL 10 @ 3'					C	1		X				X			4/8/24		X	X	X										

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Relinquished By: 	Date: 4-8-24 Time: 1445	Received By: 	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:
	Time:		REMARKS:

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

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	#140 -4.8°C	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: (Initials) JO.
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 62 of 65

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 #: 20174 Project Owner: Mewbourne										City:																			
Project Name: Dagger Draw Trunk Line										State: NM Zip:																			
Project Location: 32.580475, -104.470077										Phone #:																			
Sampler Name: Aaron Rios										Fax #:																			
FOR LAB USE ONLY										MATRIX		PRESERV		SAMPLING															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME	
H241811				C		1				X										X						4/8/24			
21		FL 22 @ 3'		C		1				X										X						4/8/24			
22		FL 23 @ 3'		C		1				X										X						4/8/24			
23		FL 25 @ 3'		C		1				X										X						4/8/24			
24		FL 26 @ 3'		C		1				X										X						4/8/24			
25		FL 27 @ 2.5'		C		1				X										X						4/8/24			
26		FL 28 @ 2.5'		C		1				X										X						4/8/24			
27		FL 29 @ 2.5'		C		1				X										X						4/8/24			
28		FL 32 @ 3'		C		1				X										X						4/8/24			
29		FL 33 @ 2.5'		C		1				X										X						4/8/24			
30		FL 34 @ 3'		C		1				X										X						4/8/24			
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Relinquished By: <i>[Signature]</i>										Date: 4-8-24		Received By: <i>[Signature]</i>										Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:					
										Time: 1:45												Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:					
Relinquished By:										Date:		Received By:										REMARKS:							
										Time:																			
Delivered By: (Circle One)										#140		Sample Condition										CHECKED BY:							
Sampler - UPS - Bus - Other:										- 4.8c		Cool Intact										(Initials)							
												<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No										20.							
												<input type="checkbox"/> Yes <input type="checkbox"/> No																	
Please email results and copy of CoC to pm@etechenv.com.																													

FORM-006
Revision 1.0

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																							
Project Manager: Lance Crenshaw				P.O. #:				<div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div>																							
Address: 2617 West Marland				Company: Mewbourne																											
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																											
Phone #: (575) 264-9884 Fax #:				Address:																											
Project #: 20174 Project Owner: Mewbourne				City:																											
Project Name: Dagger Draw Trunk Line				State: NM Zip:																											
Project Location: 32.580475, -104.470077				Phone #:																											
Sampler Name: Aaron Rios				Fax #:																											
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL:	OTHER:	PRESERV.		SAMPLING															
														DATE	TIME																
	4241811																														
	31	FL 35 @ 5'	C	1			X					X			4/8/24		X	X	X												
	32	FL 36 @ 2.5'	C	1			X					X			4/8/24		X	X	X												
	33	FL 37 @ 5'	C	1			X					X			4/8/24		X	X	X												
	34	FL 38 @ 3'	C	1			X					X			4/8/24		X	X	X												
	35	FL 39 @ 4'	C	1			X					X			4/8/24		X	X	X												
	36	FL 40 @ 3'	C	1			X					X			4/8/24		X	X	X												
	37	FL 41 @ 2'	C	1			X					X			4/8/24		X	X	X												
	38	FL 43 @ 2.5'	C	1			X					X			4/8/24		X	X	X												
	39	FL 45 @ 4'	C	1			X					X			4/8/24		X	X	X												
	40	FL 46 @ 2.5'	C	1			X					X			4/8/24		X	X	X												
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																															
Relinquished By:			Date: 4-8-24		Received By:			Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No			Add'l Phone #:			REMARKS:																	
Time: 1445			Time:			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No			Add'l Fax #:																						
Relinquished By:						Date:			Received By:																						
Time:												Please email results and copy of CoC to pm@etechenv.com.																			
Delivered By: (Circle One)																															
Sampler - UPS - Bus - Other:																															
			#140			Sample Condition			CHECKED BY:																						
			-4.8c			Cool Intact			(Initials)																						
						<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			20.																						

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																						
Project Manager: Lance Crenshaw				P.O. #:				<div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div>																						
Address: 2617 West Marland				Company: Mewbourne																										
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																										
Phone #: (575) 264-9884 Fax #:				Address:																										
Project #: 20174 Project Owner: Mewbourne				City:																										
Project Name: Dagger Draw Trunk Line				State: NM Zip:																										
Project Location: 32.580475, -104.470077				Phone #:																										
Sampler Name: Aaron Rios				Fax #:																										
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	DATE	TIME															
H241811																														
41	FL 47 @ 3'	C	1			X						X		4/8/24		X	X	X												
42	FL 49 @ 2.5'	C	1			X						X		4/8/24		X	X	X												
43	NW 1	C	1			X						X		4/8/24		X	X	X												
44	NW 2	C	1			X						X		4/8/24		X	X	X												
45	NW 3	C	1			X						X		4/8/24		X	X	X												
46	NW 4	C	1			X						X		4/8/24		X	X	X												
47	NW 5	C	1			X						X		4/8/24		X	X	X												
48	SW 1	C	1			X						X		4/8/24		X	X	X												
49	SW 2	C	1			X						X		4/8/24		X	X	X												
50	SW 3	C	1			X						X		4/8/24		X	X	X												
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Relinquished By:			Date: 4-8-24		Received By:			Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No			Add'l Phone #:																			
Time: 1445					Time: 1445			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No			Add'l Fax #:																			
Relinquished By:			Date:		Received By:			REMARKS:																						
Time:																														
Delivered By: (Circle One)			#140		Sample Condition			CHECKED BY:			Please email results and copy of CoC to pm@etechenv.com.																			
Sampler - UPS - Bus - Other:			-4.8c		Cool Intact			(Initials)																						
					<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Yes No																						

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

April 15, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: DAGGER DRAW TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/09/24 14:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/09/2024
 Reported: 04/15/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 24 @ 5' (H241838-01)

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	04/10/2024	ND	2.12	106	2.00	1.37		
Toluene*	<0.050	0.050	04/10/2024	ND	2.22	111	2.00	2.30		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.27	114	2.00	2.93		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	6.75	113	6.00	2.86		
Total BTX	<0.300	0.300	04/10/2024	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	64.0	16.0	04/10/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2024	ND	201	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	202	101	200	6.25	
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND					

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.4 % 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: 04/09/2024
 Reported: 04/15/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 42 @ 6' (H241838-02)

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	04/10/2024	ND	2.12	106	2.00	1.37	
Toluene*	<0.050	0.050	04/10/2024	ND	2.22	111	2.00	2.30	
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.27	114	2.00	2.93	
Total Xylenes*	<0.150	0.150	04/10/2024	ND	6.75	113	6.00	2.86	
Total BTEx	<0.300	0.300	04/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	04/10/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2024	ND	201	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	202	101	200	6.25	
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 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.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

April 15, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: DAGGER DRAW TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/10/24 14:46.

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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: 04/10/2024
 Reported: 04/15/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 11 @ 7' (H241866-01)

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	04/11/2024	ND	2.13	107	2.00	0.427	
Toluene*	<0.050	0.050	04/11/2024	ND	2.27	114	2.00	0.197	
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.33	117	2.00	0.405	
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.00	117	6.00	0.382	
Total BTEX	<0.300	0.300	04/11/2024	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	04/11/2024	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	04/11/2024	ND	203	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	04/11/2024	ND	215	107	200	0.868	
EXT DRO >C28-C36	<10.0	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/10/2024
 Reported: 04/15/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 30 @ 8' (H241866-02)

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	04/11/2024	ND	2.13	107	2.00	0.427		
Toluene*	<0.050	0.050	04/11/2024	ND	2.27	114	2.00	0.197		
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.33	117	2.00	0.405		
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.00	117	6.00	0.382		
Total BTEX	<0.300	0.300	04/11/2024	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	04/11/2024	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	04/10/2024	ND	211	105	200	0.904	
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	204	102	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 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: 04/10/2024
 Reported: 04/15/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 31 @ 8' (H241866-03)

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	04/11/2024	ND	2.13	107	2.00	0.427		
Toluene*	<0.050	0.050	04/11/2024	ND	2.27	114	2.00	0.197		
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.33	117	2.00	0.405		
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.00	117	6.00	0.382		
Total BTEX	<0.300	0.300	04/11/2024	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	04/11/2024	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	04/10/2024	ND	211	105	200	0.904	
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	204	102	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 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: 04/10/2024
 Reported: 04/15/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 48 @ 7.5' (H241866-04)

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	04/11/2024	ND	2.13	107	2.00	0.427		
Toluene*	<0.050	0.050	04/11/2024	ND	2.27	114	2.00	0.197		
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.33	117	2.00	0.405		
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.00	117	6.00	0.382		
Total BTEX	<0.300	0.300	04/11/2024	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	32.0	16.0	04/11/2024	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	04/10/2024	ND	211	105	200	0.904	
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	204	102	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND					

Surrogate: 1-Chlorooctane 83.6 % 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: 04/10/2024
 Reported: 04/15/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 50 @ 8' (H241866-05)

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	04/11/2024	ND	2.13	107	2.00	0.427		
Toluene*	<0.050	0.050	04/11/2024	ND	2.27	114	2.00	0.197		
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.33	117	2.00	0.405		
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.00	117	6.00	0.382		
Total BTEX	<0.300	0.300	04/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/11/2024	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	04/10/2024	ND	211	105	200	0.904	
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	204	102	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 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: 04/10/2024
 Reported: 04/15/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 51 @ 8' (H241866-06)

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	04/11/2024	ND	2.11	106	2.00	1.00		
Toluene*	<0.050	0.050	04/11/2024	ND	2.29	114	2.00	5.19		
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.37	118	2.00	7.90		
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.05	117	6.00	8.14		
Total BTEX	<0.300	0.300	04/11/2024	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	04/11/2024	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	04/10/2024	ND	211	105	200	0.904	
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	204	102	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 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

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 cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				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 #: 20174 Project Owner: Mewbourne				City:																			
Project Name: Dagger Draw Trunk Line				State: NM Zip:																			
Project Location: 32.580475, -104.470077				Phone #:																			
Sampler Name: Aaron Rios				Fax #:																			
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING													
Lab I.D.		Sample I.D.		(G/RAB OR (C)OMP. # CONTAINERS		GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:		DATE TIME													
#241826b																							
1		FL 11 @ 7'		C 1		X		X		4/10/24		X X X											
2		FL 30 @ 8'		C 1		X		X		4/10/24		X X X											
3		FIL 31 @ 8'		C 1		X		X		4/10/24		X X X											
4		FIL 48 @ 7.5'		C 1		X		X		4/10/24		X X X											
5		FIL 50 @ 8'		C 1		X		X		4/10/24		X X X											
6		FIL 51 @ 8'		C 1		X		X		4/10/24		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:		Date: 4-10-24		Received By:		Time: 1440		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:													
Relinquished By:		Date:		Received By:		Time:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:													
								REMARKS:															
Please email results and copy of CoC to pm@etechenv.com.																							
Delivered By: (Circle One)				Sample Condition:				CHECKED BY:															
Sampler - UPS - Bus - Other:				Cool Intact				(Initials)															
-5-32 #140				Yes Yes				8K															
				No No																			



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

April 16, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: DAGGER DRAW TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/11/24 14:54.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/11/2024
 Reported: 04/16/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 52 @ 6' (H241909-01)

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	04/12/2024	ND	2.20	110	2.00	0.223		
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86		
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34		
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75		
Total BTX	<0.300	0.300	04/12/2024	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	16.0	16.0	04/12/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 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: 04/11/2024
 Reported: 04/16/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 53 @ 12.5' (H241909-02)

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	04/12/2024	ND	2.20	110	2.00	0.223		
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86		
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34		
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75		
Total BTEX	<0.300	0.300	04/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	256	16.0	04/12/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 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: 04/11/2024
 Reported: 04/16/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 54 @ 7' (H241909-03)

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	04/12/2024	ND	2.20	110	2.00	0.223		
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86		
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34		
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75		
Total BTEX	<0.300	0.300	04/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	04/12/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 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: 04/11/2024
 Reported: 04/16/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 55 @ 11' (H241909-04)

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	04/12/2024	ND	2.20	110	2.00	0.223		
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86		
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34		
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75		
Total BTEX	<0.300	0.300	04/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/12/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 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: 04/11/2024
 Reported: 04/16/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 56 @ 7' (H241909-05)

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	04/12/2024	ND	2.20	110	2.00	0.223		
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86		
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34		
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75		
Total BTEX	<0.300	0.300	04/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	04/12/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

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Analytical Results For:

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

Received: 04/11/2024
 Reported: 04/16/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 57 @ 6' (H241909-06)

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	04/12/2024	ND	2.20	110	2.00	0.223		
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86		
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34		
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75		
Total BTEX	<0.300	0.300	04/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/12/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received: 04/11/2024
 Reported: 04/16/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 58 @ 6' (H241909-07)

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	04/12/2024	ND	2.20	110	2.00	0.223		
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86		
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34		
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75		
Total BTEX	<0.300	0.300	04/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	144	16.0	04/12/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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Analytical Results For:

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

Received: 04/11/2024
 Reported: 04/16/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 59 @ 2' (H241909-08)

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	04/12/2024	ND	2.20	110	2.00	0.223		
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86		
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34		
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75		
Total BTEX	<0.300	0.300	04/12/2024	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	96.0	16.0	04/15/2024	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	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 49.1-148

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Analytical Results For:

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

Received: 04/11/2024
 Reported: 04/16/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 60 @ 3' (H241909-09)

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	04/12/2024	ND	2.20	110	2.00	0.223		
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86		
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34		
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75		
Total BTEX	<0.300	0.300	04/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/15/2024	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	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received: 04/11/2024
 Reported: 04/16/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 61 @ 2' (H241909-10)

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	04/12/2024	ND	2.20	110	2.00	0.223		
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86		
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34		
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75		
Total BTEX	<0.300	0.300	04/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	04/15/2024	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	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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: 04/11/2024
 Reported: 04/16/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 62 @ 2' (H241909-11)

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	04/12/2024	ND	2.20	110	2.00	0.223		
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86		
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34		
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75		
Total BTEX	<0.300	0.300	04/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/15/2024	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	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 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: 04/11/2024
 Reported: 04/16/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 63 @ 6' (H241909-12)

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	04/12/2024	ND	2.20	110	2.00	0.223		
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86		
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34		
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75		
Total BTEX	<0.300	0.300	04/12/2024	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	96.0	16.0	04/15/2024	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	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 85.0 % 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: 04/11/2024
 Reported: 04/16/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 64 @ 8' (H241909-13)

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	04/12/2024	ND	2.20	110	2.00	0.223		
Toluene*	<0.050	0.050	04/12/2024	ND	2.31	115	2.00	4.86		
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.38	119	2.00	5.34		
Total Xylenes*	<0.150	0.150	04/12/2024	ND	7.13	119	6.00	5.75		
Total BTEX	<0.300	0.300	04/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	208	16.0	04/15/2024	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	04/12/2024	ND	182	91.0	200	0.376	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	174	87.1	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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

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", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 16 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:																																																											
Project #: 20174 Project Owner: Mewbourne										City:																																																											
Project Name: Dagger Draw Trunk Line										State: NM Zip:																																																											
Project Location: 32.580475, -104.470077										Phone #:																																																											
Sampler Name: Aaron Rios										Fax #:																																																											
FOR LAB USE ONLY										<div style="display: flex;"> <div style="flex: 1;"> <p>H241909 Lab I.D.</p> </div> <div style="flex: 2;"> <p>Sample I.D.</p> </div> </div>										<div style="display: flex;"> <div style="flex: 1;"> <p>(GRAB OR C)OMP.</p> </div> <div style="flex: 1;"> <p># CONTAINERS</p> </div> <div style="flex: 1;"> <p>MATRIX</p> </div> <div style="flex: 1;"> <p>PRESERV.</p> </div> <div style="flex: 1;"> <p>SAMPLING</p> </div> </div>																																																	
										<div style="display: flex;"> <div style="flex: 1;"> <p>GROUNDWATER</p> </div> <div style="flex: 1;"> <p>WASTEWATER</p> </div> <div style="flex: 1;"> <p>SOIL</p> </div> <div style="flex: 1;"> <p>OIL</p> </div> <div style="flex: 1;"> <p>SLUDGE</p> </div> <div style="flex: 1;"> <p>OTHER:</p> </div> <div style="flex: 1;"> <p>ACID/BASE:</p> </div> <div style="flex: 1;"> <p>ICE / COOL</p> </div> <div style="flex: 1;"> <p>OTHER:</p> </div> </div>																																																											
										DATE										TIME																																																	
1 FL 52 @ 6'										C 1										X										4/11/24										X										X										X									
2 FL 53 @ 12.5'										C 1										X										4/11/24										X										X										X									
3 FL 54 @ 7'										C 1										X										4/11/24										X										X										X									
4 FL 55 @ 11'										C 1										X										4/11/24										X										X										X									
5 FL 56 @ 7'										C 1										X										4/11/24										X										X										X									
6 FL 57 @ 6'										C 1										X										4/11/24										X										X										X									
7 FL 58 @ 6'										C 1										X										4/11/24										X										X										X									
8 FL 59 @ 2'										C 1										X										4/11/24										X										X										X									
9 FL 60 @ 3'										C 1										X										4/11/24										X										X										X									
10 FL 61 @ 2'										C 1										X										4/11/24										X										X										X									
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																																																					
Relinquished By:										Date: 4-11-24										Received By:										Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:																																							
[Signature]										Time: 1454										[Signature]										Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:																																							
Relinquished By:										Date:										Received By:										REMARKS:																																							
										Time:																																																											
Delivered By: (Circle One)										Sample Condition										CHECKED BY:										Please email results and copy of CoC to pm@etechenv.com.																																							
Sampler - UPS - Bus - Other: -11.02 #140										Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>										[Signature]																																																	



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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 #: 20174		Project Owner: Mewbourne		State: NM		Zip:													
Project Name: Dagger Draw Trunk Line				Phone #:															
Project Location: 32.580475, -104.470077				Fax #:															
Sampler Name: Aaron Rios																			

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 62 @ 2'	C	1			X					X		4/11/24		X	X	X										
12	FL 63 @ 6'	C	1			X					X		4/11/24		X	X	X										
13	FL 64 @ 8'	C	1			X					X		4/11/24		X	X	X										

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Relinquished By: Relinquished By:	Date: 4-11-24 Time: 1454	Received By: Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -11-02 #140			Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -11-02 #140		CHECKED BY: (Initials) 	Please email results and copy of CoC to pm@etechenv.com.

FORM-006
Revision 1.0

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

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

June 11, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: DAGGER DRAW TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/16/24 14:55.

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

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Project: DAGGER DRAW TRUNK LINE
Project Number: 20174
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
11-Jun-24 15:05

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL 18 @ 3.5'	H242016-01	Soil	16-Apr-24 00:00	16-Apr-24 14:55
NEW 1	H242016-02	Soil	16-Apr-24 00:00	16-Apr-24 14:55
NEW 2	H242016-03	Soil	16-Apr-24 00:00	16-Apr-24 14:55
NEW 3	H242016-04	Soil	16-Apr-24 00:00	16-Apr-24 14:55
SWW 1	H242016-05	Soil	16-Apr-24 00:00	16-Apr-24 14:55
SWW 2	H242016-06	Soil	16-Apr-24 00:00	16-Apr-24 14:55
SWW 3	H242016-07	Soil	16-Apr-24 00:00	16-Apr-24 14:55
NW 6	H242016-08	Soil	16-Apr-24 00:00	16-Apr-24 14:55

06/11/24 - Client changed the sample IDs of -05 and -06 (see COC). This is the revised report and will replace the one sent on 04/22/24.

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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
2617 W MARLAND
HOBBS NM, 88240

Project: DAGGER DRAW TRUNK LINE
Project Number: 20174
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
11-Jun-24 15:05

FL 18 @ 3.5'
H242016-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	4041809	AC	18-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	71.5-134		4041729	JH	18-Apr-24	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041717	MS	17-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4041717	MS	17-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4041717	MS	17-Apr-24	8015B	
Surrogate: 1-Chlorooctane			96.5 %	48.2-134		4041717	MS	17-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane			101 %	49.1-148		4041717	MS	17-Apr-24	8015B	

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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
2617 W MARLAND
HOBBS NM, 88240

Project: DAGGER DRAW TRUNK LINE
Project Number: 20174
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
11-Jun-24 15:05

NEW 1
H242016-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	208		16.0	mg/kg	4	4041809	AC	18-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4041729	JH	18-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	103 %	71.5-134	4041729	JH	18-Apr-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4041717	MS	17-Apr-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4041717	MS	17-Apr-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4041717	MS	17-Apr-24	8015B

Surrogate: 1-Chlorooctane	91.6 %	48.2-134	4041717	MS	17-Apr-24	8015B
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Surrogate: 1-Chlorooctadecane	96.6 %	49.1-148	4041717	MS	17-Apr-24	8015B
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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
2617 W MARLAND
HOBBS NM, 88240

Project: DAGGER DRAW TRUNK LINE
Project Number: 20174
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
11-Jun-24 15:05

NEW 2
H242016-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	144		16.0	mg/kg	4	4041809	AC	18-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041729	JH	18-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %		71.5-134	4041729	JH	18-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041717	MS	17-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4041717	MS	17-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4041717	MS	17-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.3 %		48.2-134	4041717	MS	17-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			96.9 %		49.1-148	4041717	MS	17-Apr-24	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: DAGGER DRAW TRUNK LINE
Project Number: 20174
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
11-Jun-24 15:05

NEW 3
H242016-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	4041809	AC	18-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041729	JH	18-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	71.5-134		4041729	JH	18-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			103 %	48.2-134		4041726	MS	17-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			107 %	49.1-148		4041726	MS	17-Apr-24	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: DAGGER DRAW TRUNK LINE
Project Number: 20174
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
11-Jun-24 15:05

SWW 1
H242016-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	336		16.0	mg/kg	4	4041809	AC	18-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041729	JH	18-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %		71.5-134	4041729	JH	18-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			89.5 %		48.2-134	4041726	MS	17-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			92.1 %		49.1-148	4041726	MS	17-Apr-24	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: DAGGER DRAW TRUNK LINE
Project Number: 20174
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
11-Jun-24 15:05

SWW 2**H242016-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	400		16.0	mg/kg	4	4041809	AC	18-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041729	JH	18-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %		71.5-134	4041729	JH	18-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			93.8 %		48.2-134	4041726	MS	17-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			96.6 %		49.1-148	4041726	MS	17-Apr-24	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: DAGGER DRAW TRUNK LINE
Project Number: 20174
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
11-Jun-24 15:05

SWW 3
H242016-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	4041809	AC	18-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041729	JH	18-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	71.5-134		4041729	JH	18-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			99.8 %	48.2-134		4041726	MS	17-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			104 %	49.1-148		4041726	MS	17-Apr-24	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: DAGGER DRAW TRUNK LINE
Project Number: 20174
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
11-Jun-24 15:05

NW 6
H242016-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	4041809	AC	18-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041729	JH	18-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	71.5-134		4041729	JH	18-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			90.9 %	48.2-134		4041726	MS	17-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			96.7 %	49.1-148		4041726	MS	17-Apr-24	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: DAGGER DRAW TRUNK LINE
Project Number: 20174
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
11-Jun-24 15:05

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 4041809 - 1:4 DI Water									
Blank (4041809-BLK1)					Prepared & Analyzed: 18-Apr-24				
Chloride	ND	16.0	mg/kg						
LCS (4041809-BS1)					Prepared & Analyzed: 18-Apr-24				
Chloride	480	16.0	mg/kg	400		120	80-120		
LCS Dup (4041809-BSD1)					Prepared & Analyzed: 18-Apr-24				
Chloride	464	16.0	mg/kg	400		116	80-120	3.39	20

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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
2617 W MARLAND
HOBBS NM, 88240

Project: DAGGER DRAW TRUNK LINE
Project Number: 20174
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
11-Jun-24 15:05

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 4041729 - Volatiles**Blank (4041729-BLK1)**

Prepared: 17-Apr-24 Analyzed: 18-Apr-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0522		mg/kg	0.0500		104	71.5-134			

LCS (4041729-BS1)

Prepared: 17-Apr-24 Analyzed: 18-Apr-24

Benzene	2.07	0.050	mg/kg	2.00		103	82.8-130			
Toluene	2.07	0.050	mg/kg	2.00		104	86-128			
Ethylbenzene	2.01	0.050	mg/kg	2.00		100	85.9-128			
m,p-Xylene	4.16	0.100	mg/kg	4.00		104	89-129			
o-Xylene	1.98	0.050	mg/kg	2.00		99.2	86.1-125			
Total Xylenes	6.15	0.150	mg/kg	6.00		102	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0506		mg/kg	0.0500		101	71.5-134			

LCS Dup (4041729-BS1)

Prepared: 17-Apr-24 Analyzed: 18-Apr-24

Benzene	2.06	0.050	mg/kg	2.00		103	82.8-130	0.321	15.8	
Toluene	2.07	0.050	mg/kg	2.00		103	86-128	0.334	15.9	
Ethylbenzene	2.00	0.050	mg/kg	2.00		100	85.9-128	0.230	16	
m,p-Xylene	4.14	0.100	mg/kg	4.00		104	89-129	0.415	16.2	
o-Xylene	1.98	0.050	mg/kg	2.00		99.0	86.1-125	0.204	16.7	
Total Xylenes	6.12	0.150	mg/kg	6.00		102	88.2-128	0.347	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0508		mg/kg	0.0500		102	71.5-134			

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: DAGGER DRAW TRUNK LINE
Project Number: 20174
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
11-Jun-24 15:05

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4041717 - General Prep - Organics**Blank (4041717-BLK1)**

Prepared & Analyzed: 17-Apr-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	48.8		mg/kg	50.0		97.5	48.2-134			
Surrogate: 1-Chlorooctadecane	52.1		mg/kg	50.0		104	49.1-148			

LCS (4041717-BS1)

Prepared & Analyzed: 17-Apr-24

GRO C6-C10	190	10.0	mg/kg	200		95.0	66.4-123			
DRO >C10-C28	207	10.0	mg/kg	200		104	66.5-118			
Total TPH C6-C28	397	10.0	mg/kg	400		99.3	77.6-123			
Surrogate: 1-Chlorooctane	52.5		mg/kg	50.0		105	48.2-134			
Surrogate: 1-Chlorooctadecane	54.4		mg/kg	50.0		109	49.1-148			

LCS Dup (4041717-BSD1)

Prepared & Analyzed: 17-Apr-24

GRO C6-C10	196	10.0	mg/kg	200		98.1	66.4-123	3.21	17.7	
DRO >C10-C28	213	10.0	mg/kg	200		107	66.5-118	2.81	21	
Total TPH C6-C28	409	10.0	mg/kg	400		102	77.6-123	3.00	18.5	
Surrogate: 1-Chlorooctane	52.4		mg/kg	50.0		105	48.2-134			
Surrogate: 1-Chlorooctadecane	55.0		mg/kg	50.0		110	49.1-148			

Batch 4041726 - General Prep - Organics**Blank (4041726-BLK1)**

Prepared & Analyzed: 17-Apr-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	50.8		mg/kg	50.0		102	48.2-134			
Surrogate: 1-Chlorooctadecane	51.6		mg/kg	50.0		103	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: DAGGER DRAW TRUNK LINE
Project Number: 20174
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
11-Jun-24 15:05

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4041726 - General Prep - Organics**LCS (4041726-BS1)**

Prepared & Analyzed: 17-Apr-24

GRO C6-C10	203	10.0	mg/kg	200		102	66.4-123			
DRO >C10-C28	211	10.0	mg/kg	200		106	66.5-118			
Total TPH C6-C28	414	10.0	mg/kg	400		104	77.6-123			
Surrogate: 1-Chlorooctane	53.6		mg/kg	50.0		107	48.2-134			
Surrogate: 1-Chlorooctadecane	54.0		mg/kg	50.0		108	49.1-148			

LCS Dup (4041726-BS1)

Prepared & Analyzed: 17-Apr-24

GRO C6-C10	203	10.0	mg/kg	200		101	66.4-123	0.306	17.7	
DRO >C10-C28	204	10.0	mg/kg	200		102	66.5-118	3.29	21	
Total TPH C6-C28	407	10.0	mg/kg	400		102	77.6-123	1.81	18.5	
Surrogate: 1-Chlorooctane	55.5		mg/kg	50.0		111	48.2-134			
Surrogate: 1-Chlorooctadecane	55.5		mg/kg	50.0		111	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



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 16 of 16

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 #: 20174 Project Owner: Mewbourne				City:																				
Project Name: Dagger Draw Trunk Line				State: NM Zip:																				
Project Location: 32.580475, -104.470077				Phone #:																				
Sampler Name: Aaron Rios				Fax #:																				
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME										
H242016																								
1	FL 18 @ 3.5'	C	1			X				X			4/16/24		X	X	X							
2	NEW 1	C	1			X				X			4/16/24		X	X	X							
3	NEW 2	C	1			X				X			4/16/24		X	X	X							
4	NEW 3	C	1			X				X			4/16/24		X	X	X							
5	SEW 1 *	C	1			X				X			4/16/24		X	X	X							
6	SEW 2	C	1			X				X			4/16/24		X	X	X							
7	SWW 3	C	1			X				X			4/16/24		X	X	X							
8	NW 6	C	1			X				X			4/16/24		X	X	X							
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Relinquished By: <i>[Signature]</i>		Date: 4-16-24 Time: 1455		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: Add'l Fax #:		REMARKS: * Customer requested ID changes Please email results and copy of CoC to pm@etechenv.com.														
Relinquished By:		Date: Time:		Received By:																				
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Date: Time:		Received By:																				
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Date: Time:		Received By:		Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		CHECKED BY: (Initials)																

FORM-006
Revision 1.0

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



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

May 03, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: DAGGER DRAW TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/29/24 14:42.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 1 @ 8' (H242273-01)

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	05/01/2024	ND	1.92	95.8	2.00	1.03	
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53	
Total BTX	<0.300	0.300	05/01/2024	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	22400	16.0	05/01/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	190	94.8	200	2.09	
DRO >C10-C28*	12.7	10.0	05/01/2024	ND	198	99.0	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 1 @ 10' (H242273-02)

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	05/01/2024	ND	1.92	95.8	2.00	1.03		
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53		
Total BTEX	<0.300	0.300	05/01/2024	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	15600	16.0	05/01/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 1 @ 12' (H242273-03)

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	05/01/2024	ND	1.92	95.8	2.00	1.03		
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53		
Total BTEX	<0.300	0.300	05/01/2024	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	16000	16.0	05/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 1 @ 14' (H242273-04)

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	05/01/2024	ND	1.92	95.8	2.00	1.03		
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53		
Total BTEX	<0.300	0.300	05/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	7330	16.0	05/02/2024	ND	416	104	400	3.77	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 1 @ 16' (H242273-05)

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	05/01/2024	ND	1.92	95.8	2.00	1.03		
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53		
Total BTEX	<0.300	0.300	05/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	6000	16.0	05/02/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 1 @ 18' (H242273-06)

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	05/01/2024	ND	1.92	95.8	2.00	1.03		
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53		
Total BTEx	<0.300	0.300	05/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	6080	16.0	05/02/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 1 @ 20' (H242273-07)

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	05/01/2024	ND	1.92	95.8	2.00	1.03	
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53	
Total BTX	<0.300	0.300	05/01/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	05/02/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 1 @ 22' (H242273-08)

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	05/01/2024	ND	1.92	95.8	2.00	1.03		
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53		
Total BTEX	<0.300	0.300	05/01/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8930	16.0	05/02/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.6 % 49.1-148

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Analytical Results For:

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

Received: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 1 @ 24' (H242273-09)

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	05/01/2024	ND	1.92	95.8	2.00	1.03		
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53		
Total BTEX	<0.300	0.300	05/01/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9060	16.0	05/02/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 1 @ 26' (H242273-10)

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	05/01/2024	ND	1.92	95.8	2.00	1.03	
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53	
Total BTEX	<0.300	0.300	05/01/2024	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	3360	16.0	05/02/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 76.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.1 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 1 @ 28' (H242273-11)

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	05/01/2024	ND	1.92	95.8	2.00	1.03	
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53	
Total BTEX	<0.300	0.300	05/01/2024	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	64.0	16.0	05/02/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

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Analytical Results For:

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

Received: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 2 @ 8' (H242273-12)

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	05/01/2024	ND	1.92	95.8	2.00	1.03		
Toluene*	<0.050	0.050	05/01/2024	ND	1.96	98.0	2.00	0.758		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	1.98	99.2	2.00	0.966		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.82	97.0	6.00	1.53		
Total BTEx	<0.300	0.300	05/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9330	16.0	05/02/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	30.6	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 2 @ 10' (H242273-13)

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	05/01/2024	ND	2.12	106	2.00	0.750		
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26		
Total BTEX	<0.300	0.300	05/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	8660	16.0	05/02/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 2 @ 12' (H242273-14)

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	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	10800	16.0	05/02/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 2 @ 14' (H242273-15)

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 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	7600	16.0	05/02/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 91.0 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 2 @ 16' (H242273-16)

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	10900	16.0	05/02/2024	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	04/30/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 2 @ 18' (H242273-17)

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 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	11100	16.0	05/02/2024	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	05/01/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 2 @ 20' (H242273-18)

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	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	2640	16.0	05/02/2024	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	05/01/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 2 @ 22' (H242273-19)

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/02/2024	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	05/01/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 3 @ 8' (H242273-20)

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 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	928	16.0	05/02/2024	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	05/01/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 3 @ 10' (H242273-21)

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	05/01/2024	ND	2.12	106	2.00	0.750		
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26		
Total BTEX	<0.300	0.300	05/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 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	1580	16.0	05/02/2024	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	05/01/2024	ND	199	99.5	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	188	93.8	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.9 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 3 @ 12' (H242273-22)

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 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	7460	16.0	05/02/2024	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	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 91.7 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 3 @ 14' (H242273-23)

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	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	416	16.0	05/02/2024	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	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.0 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT 3 @ 16' (H242273-24)

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEx	<0.300	0.300	05/01/2024	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	288	16.0	05/01/2024	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	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 90.7 % 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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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", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 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 #: 20174 Project Owner: Mewbourne				City:																				
Project Name: Dagger Draw Trunk Line				State: NM Zip:																				
Project Location: 32.580475, -104.470077				Phone #:																				
Sampler Name: Aaron Rios				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										
H242273																								
1	TT 1 @ 8'	G	1			X				X			4/24/24		X	X	X							
2	TT 1 @ 10'	G	1			X				X			4/24/24		X	X	X							
3	TT 1 @ 12'	G	1			X				X			4/24/24		X	X	X							
4	TT 1 @ 14'	G	1			X				X			4/24/24		X	X	X							
5	TT 1 @ 16'	G	1			X				X			4/24/24		X	X	X							
6	TT 1 @ 18'	G	1			X				X			4/24/24		X	X	X							
7	TT 1 @ 20'	G	1			X				X			4/24/24		X	X	X							
8	TT 1 @ 22'	G	1			X				X			4/24/24		X	X	X							
9	TT 1 @ 24'	G	1			X				X			4/24/24		X	X	X							
10	TT 1 @ 26'	G	1			X				X			4/24/24		X	X	X							
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Relinquished By:				Date: 4-29-24		Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:												
				Time: 1442						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:												
Relinquished By:				Date:		Received By:				REMARKS:		<p>Please email results and copy of CoC to pm@etechenv.com.</p>												
				Time:																				
Delivered By: (Circle One)				#140		Sample Condition				CHECKED BY: (Initials)														
Sampler - UPS - Bus - Other: -9.6						Cool Intact				20														
						<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																		
						<input type="checkbox"/> No <input type="checkbox"/> No																		

FORM-006
Revision 1.0

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 3

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 #: 20174 Project Owner: Mewbourne Project Name: Dagger Draw Trunk Line Project Location: 32.580475, -104.470077 Sampler Name: Aaron Rios										BILL TO				ANALYSIS REQUEST													
										P.O. #: Company: Mewbourne Attn: Connor Walker Address: City: State: NM Zip: Phone #: Fax #:				<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>													
<small>FOR LAB USE ONLY</small>										MATRIX				PRESERV.		SAMPLING											
Lab I.D. H3412073		Sample I.D.				GRAB OR (C)OMP. # CONTAINERS		GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:		DATE TIME															
11		TT 1 @ 28'				G 1		X		X		4/24/24		X X X													
12		TT 2 @ 8'				G 1		X		X		4/24/24		X X X													
13		TT 2 @ 10'				G 1		X		X		4/24/24		X X X													
14		TT 2 @ 12'				G 1		X		X		4/24/24		X X X													
15		TT 2 @ 14'				G 1		X		X		4/24/24		X X X													
16		TT 2 @ 16'				G 1		X		X		4/24/24		X X X													
17		TT 2 @ 18'				G 1		X		X		4/24/24		X X X													
18		TT 2 @ 20'				G 1		X		X		4/24/24		X X X													
19		TT 2 @ 22'				G 1		X		X		4/24/24		X X X													
20		TT 3 @ 8'				G 1		X		X		4/24/24		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: <i>[Signature]</i> Date: 4-29-24 Time: 1442										Received By: <i>[Signature]</i> Date: Time:										Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS:							
Relinquished By: Date: Time:										Received By: Date: Time:										Please email results and copy of CoC to pm@etechenv.com.							
Delivered By: (Circle One) Sampler - UPS - Bus - Other:										Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No																CHECKED BY: (Initials)	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 3 of 3

Page 29 of 29

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

May 03, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: DAGGER DRAW TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/29/24 14:42.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 65 @ 6' (H242274-01)

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTX	<0.300	0.300	05/01/2024	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	64.0	16.0	05/02/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 66 @ 6' (H242274-02)

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	05/01/2024	ND	2.12	106	2.00	0.750		
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26		
Total BTEX	<0.300	0.300	05/01/2024	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	64.0	16.0	05/02/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.1 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 67 @ 8' (H242274-03)

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	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	528	16.0	05/02/2024	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.1 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 68 @ 8' (H242274-04)

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	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	1090	16.0	05/02/2024	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.6 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 69 @ 8' (H242274-05)

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1150	16.0	05/02/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.8 % 49.1-148

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 HOBBS NM, 88240
 Fax To:

Received: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 70 @ 8' (H242274-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.070	0.050	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	1.76	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	0.726	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	5.71	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	8.27	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	1070	16.0	05/02/2024	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	47.3	10.0	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	11.3	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

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 HOBBS NM, 88240
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Received: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 71 @ 8' (H242274-07)

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	05/01/2024	ND	2.12	106	2.00	0.750		
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26		
Total BTEX	<0.300	0.300	05/01/2024	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	1040	16.0	05/02/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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Analytical Results For:

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

Received: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 72 @ 8' (H242274-08)

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	05/01/2024	ND	2.12	106	2.00	0.750	
Toluene*	<0.050	0.050	05/01/2024	ND	2.14	107	2.00	1.22	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.35	118	2.00	0.0969	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	7.14	119	6.00	1.26	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	4200	16.0	05/02/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

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Analytical Results For:

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 LANCE CRENSHAW
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 HOBBS NM, 88240
 Fax To:

Received: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 73 @ 8' (H242274-09)

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	05/01/2024	ND	2.06	103	2.00	5.30	
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	3800	16.0	05/02/2024	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

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Analytical Results For:

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

Received: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 74 @ 8' (H242274-10)

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	05/01/2024	ND	2.06	103	2.00	5.30		
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91		
Total BTEX	<0.300	0.300	05/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	1040	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 75 @ 8' (H242274-11)

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	05/01/2024	ND	2.06	103	2.00	5.30	
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	7840	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 76 @ 8' (H242274-12)

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	05/01/2024	ND	2.06	103	2.00	5.30		
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91		
Total BTEX	<0.300	0.300	05/01/2024	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	880	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 77 @ 8' (H242274-13)

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	05/01/2024	ND	2.06	103	2.00	5.30		
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91		
Total BTEX	<0.300	0.300	05/01/2024	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	3240	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.4 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 78 @ 8' (H242274-14)

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	05/01/2024	ND	2.06	103	2.00	5.30	
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/01/2024	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	10400	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.5 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 79 @ 8' (H242274-15)

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	05/01/2024	ND	2.06	103	2.00	5.30		
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91		
Total BTEX	<0.300	0.300	05/01/2024	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	21400	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.8 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 80 @ 8' (H242274-16)

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	05/01/2024	ND	2.06	103	2.00	5.30	
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	23000	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 81 @ 8' (H242274-17)

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	05/01/2024	ND	2.06	103	2.00	5.30	
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	4640	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	196	98.0	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	187	93.5	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.2 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 82 @ 8' (H242274-18)

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	05/01/2024	ND	2.06	103	2.00	5.30		
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57		
Ethylbenzene*	0.059	0.050	05/01/2024	ND	2.09	105	2.00	4.91		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91		
Total BTEX	<0.300	0.300	05/01/2024	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	18400	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	197	98.5	200	1.82	
DRO >C10-C28*	154	10.0	05/01/2024	ND	199	99.7	200	1.60	
EXT DRO >C28-C36	25.8	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 83 @ 8' (H242274-19)

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	05/01/2024	ND	2.06	103	2.00	5.30		
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91		
Total BTEX	<0.300	0.300	05/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	8000	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	197	98.5	200	1.82	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.7	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 84 @ 8' (H242274-20)

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	05/01/2024	ND	2.06	103	2.00	5.30		
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91		
Total BTEX	<0.300	0.300	05/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	9000	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	197	98.5	200	1.82	
DRO >C10-C28*	33.5	10.0	05/01/2024	ND	199	99.7	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 97.4 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 85 @ 8' (H242274-21)

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	05/01/2024	ND	2.06	103	2.00	5.30		
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91		
Total BTEX	<0.300	0.300	05/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	12000	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	197	98.5	200	1.82	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.7	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.5 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 86 @ 8' (H242274-22)

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	05/01/2024	ND	2.06	103	2.00	5.30		
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91		
Total BTEX	<0.300	0.300	05/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	16400	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	197	98.5	200	1.82	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.7	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 87 @ 8' (H242274-23)

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	05/01/2024	ND	2.06	103	2.00	5.30		
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91		
Total BTEX	<0.300	0.300	05/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	8800	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	197	98.5	200	1.82	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.7	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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Analytical Results For:

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

Received: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 88 @ 8' (H242274-24)

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	05/01/2024	ND	2.06	103	2.00	5.30	
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	25200	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	197	98.5	200	1.82	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.7	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

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Analytical Results For:

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

Received: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 89 @ 8' (H242274-25)

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	05/01/2024	ND	2.06	103	2.00	5.30		
Toluene*	<0.050	0.050	05/01/2024	ND	2.07	103	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.09	105	2.00	4.91		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.10	102	6.00	4.91		
Total BTEX	<0.300	0.300	05/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	12000	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	197	98.5	200	1.82	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.7	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 97.0 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 90 @ 8' (H242274-26)

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	05/02/2024	ND	2.06	103	2.00	5.30		
Toluene*	<0.050	0.050	05/02/2024	ND	2.07	103	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.09	105	2.00	4.91		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.10	102	6.00	4.91		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	12400	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	197	98.5	200	1.82	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.7	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 91 @ 8' (H242274-27)

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	05/02/2024	ND	2.06	103	2.00	5.30		
Toluene*	<0.050	0.050	05/02/2024	ND	2.07	103	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.09	105	2.00	4.91		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.10	102	6.00	4.91		
Total BTEX	<0.300	0.300	05/02/2024	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	7100	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	197	98.5	200	1.82	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.7	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 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: 04/29/2024
 Reported: 05/03/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 92 @ 8' (H242274-28)

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	05/02/2024	ND	2.06	103	2.00	5.30		
Toluene*	<0.050	0.050	05/02/2024	ND	2.07	103	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.09	105	2.00	4.91		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.10	102	6.00	4.91		
Total BTEX	<0.300	0.300	05/02/2024	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	6480	16.0	05/02/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	197	98.5	200	1.82	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	199	99.7	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

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. #:				<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 #: 20174 Project Owner: Mewbourne				City:																				
Project Name: Dagger Draw Trunk Line				State: NM Zip:																				
Project Location: 32.580475, -104.470077				Phone #:																				
Sampler Name: Aaron Rios				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										
H242274																								
1	FL 65 @ 6'	C	1			X					X		4/24/24		X	X	X							
2	FL 66 @ 6'	C	1			X					X		4/24/24		X	X	X							
3	FL 67 @ 8'	C	1			X					X		4/24/24		X	X	X							
4	FL 68 @ 8'	C	1			X					X		4/24/24		X	X	X							
5	FL 69 @ 8'	C	1			X					X		4/24/24		X	X	X							
6	FL 70 @ 8'	C	1			X					X		4/24/24		X	X	X							
7	FL 71 @ 8'	C	1			X					X		4/24/24		X	X	X							
8	FL 72 @ 8'	C	1			X					X		4/24/24		X	X	X							
9	FL 73 @ 8'	C	1			X					X		4/24/24		X	X	X							
10	FL 74 @ 8'	C	1			X					X		4/24/24		X	X	X							
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																								
Relinquished By:		Date: 4-29-24 Time: 1442		Received By:		Date: Time:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:		REMARKS: Please email results and copy of CoC to pm@etechenv.com.												
Relinquished By:		Date: Time:		Received By:		Date: Time:		Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: (Initials)														
Delivered By: (Circle One)		Sampler - UPS - Bus - Other:		#140		-9.6c		Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: (Initials)														

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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>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 #: 20174 Project Owner: Mewbourne				City:																							
Project Name: Dagger Draw Trunk Line				State: NM Zip:																							
Project Location: 32.580475, -104.470077				Phone #:																							
Sampler Name: Aaron Rios				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													
H242274																											
11	FL 75 @ 8'	C	1			X				X			4/24/24		X	X	X										
12	FL 76 @ 8'	C	1			X				X			4/24/24		X	X	X										
13	FL 77 @ 8'	C	1			X				X			4/24/24		X	X	X										
14	FL 78 @ 8'	C	1			X				X			4/24/24		X	X	X										
15	FL 79 @ 8'	C	1			X				X			4/24/24		X	X	X										
16	FL 80 @ 8'	C	1			X				X			4/24/24		X	X	X										
17	FL 81 @ 8'	C	1			X				X			4/24/24		X	X	X										
18	FL 82 @ 8'	C	1			X				X			4/24/24		X	X	X										
19	FL 83 @ 8'	C	1			X				X			4/24/24		X	X	X										
20	FL 84 @ 8'	C	1			X				X			4/24/24		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: <i>[Signature]</i>		Date: 4-29-24 Time: 1442		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:		REMARKS: Please email results and copy of CoC to pm@etechenv.com.																	
Relinquished By:		Date: Time:		Received By:																							
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Date: Time:		Received By:																							
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Date: Time:		Received By:		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials)																			

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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 #: 20174 Project Owner: Mewbourne				City:																						
Project Name: Dagger Draw Trunk Line				State: NM Zip:																						
Project Location: 32.580475, -104.470077				Phone #:																						
Sampler Name: Aaron Rios				Fax #:																						
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																		
Lab I.D. 4242274	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
21	FL 85 @ 8'	C	1			X				X			4/24/24			X	X	X								
22	FL 86 @ 8'	C	1			X				X			4/24/24			X	X	X								
23	FL 87 @ 8'	C	1			X				X			4/24/24			X	X	X								
24	FL 88 @ 8'	C	1			X				X			4/24/24			X	X	X								
25	FL 89 @ 8'	C	1			X				X			4/24/24			X	X	X								
26	FL 90 @ 8'	C	1			X				X			4/24/24			X	X	X								
27	FL 91 @ 8'	C	1			X				X			4/24/24			X	X	X								
28	FL 92 @ 8'	C	1			X				X			4/24/24			X	X	X								
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																										
Relinquished By:		Date: 4/29/24		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																		
Relinquished By:		Date: 7/4/24		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																		
Relinquished By:		Date:		Received By:		REMARKS:																				
Delivered By: (Circle One)		Time:		Sample Condition		CHECKED BY:		Please email results and copy of CoC to pm@etechenv.com.																		
Sampler - UPS - Bus - Other:		#140		Cool Intact		(Initials)																				
Sampler - UPS - Bus - Other:		-9.6c		Yes No		Yes No																				

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

December 17, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: DAGGER DRAW TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 12/11/24 8:40.

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: 12/11/2024
 Reported: 12/17/2024
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580475,-104.470077

Sampling Date: 12/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: STOCKTON BACKFILL PIT (H247490-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2024	ND	1.78	89.0	2.00	10.4	
Toluene*	<0.050	0.050	12/11/2024	ND	1.79	89.6	2.00	9.70	
Ethylbenzene*	<0.050	0.050	12/11/2024	ND	1.79	89.3	2.00	9.23	
Total Xylenes*	<0.150	0.150	12/11/2024	ND	5.35	89.2	6.00	9.38	
Total BTEX	<0.300	0.300	12/11/2024	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	32.0	16.0	12/12/2024	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	12/12/2024	ND	194	97.1	200	1.07	
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	194	96.8	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

Cardinal Laboratories

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

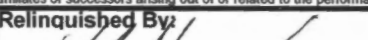
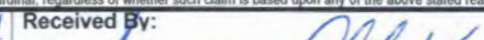

Celey D. Keene, Lab Director/Quality Manager

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

Page 1 of 1

[illegible]

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Relinquished By: 		Date: 12-11-24 Time: 0840		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 -4.7 Corrected Temp. °C -5.3		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <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"/> Observed Temp. °C _____ Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C _____	
				Thermometer ID #140 Correction Factor -0.6°C			



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

June 24, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: DAGGER DRAW TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 06/23/25 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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: 06/23/2025
 Reported: 06/24/2025
 Project Name: DAGGER DRAW TRUNK LINE
 Project Number: 20174
 Project Location: MEWBOURNE 32.580784-104.470355

Sampling Date: 06/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 44 @ 4' (H253769-01)

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	06/24/2025	ND	2.05	103	2.00	6.88		
Toluene*	<0.050	0.050	06/24/2025	ND	2.22	111	2.00	8.89		
Ethylbenzene*	<0.050	0.050	06/24/2025	ND	1.99	99.7	2.00	8.06		
Total Xylenes*	<0.150	0.150	06/24/2025	ND	6.00	99.9	6.00	7.98		
Total BTX	<0.300	0.300	06/24/2025	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	192	16.0	06/24/2025	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	06/24/2025	ND	190	94.8	200	15.4	
DRO >C10-C28*	<10.0	10.0	06/24/2025	ND	176	88.0	200	17.7	
EXT DRO >C28-C36	<10.0	10.0	06/24/2025	ND					

Surrogate: 1-Chlorooctane 89.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.3 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

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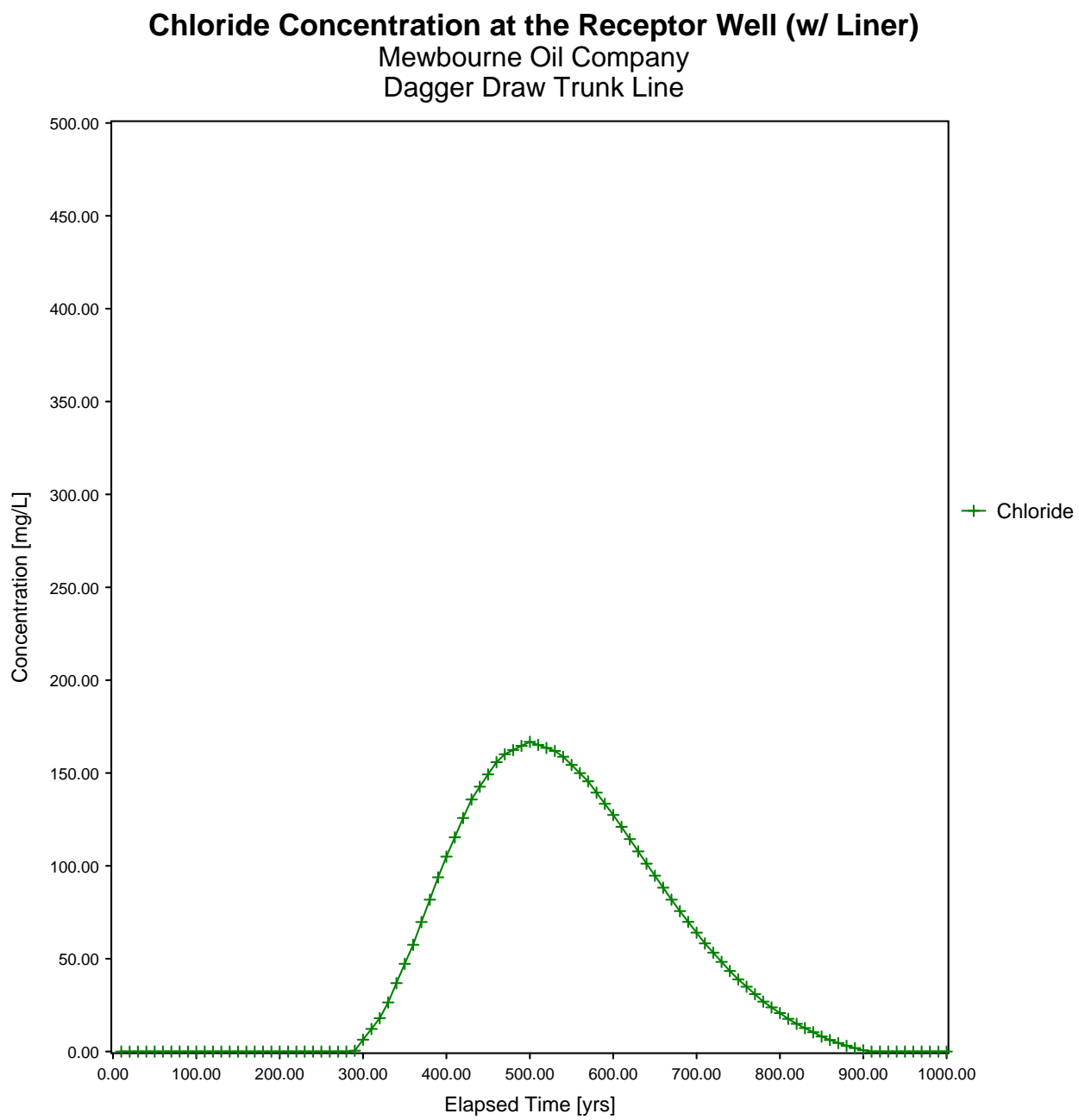
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Relinquished By: <i>Matt</i>		Date: <i>6-23-25</i> Time: <i>1450</i>	Received By: <i>S Rodriguez</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: pm@etechenv.com
Relinquished By:		Date:	Received By:	REMARKS: 24H Rush - Bill analytical charges to Mewbourne C/O Connor Walker and rush charges to Etech C/O Lance Crenshaw.
		Time:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: <i>-3.0</i> Corrected Temp. °C: <i>-2.7</i>	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: (Initials) <i>SR</i>	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Thermometer ID #140 Correction Factor <i>-0.3</i>
				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

Appendix E

Multimedia Exposure Assessment Model (MULTIMED)



Released to Imaging 9/9/2023 3:32:07 PM

U. S. ENVIRONMENTAL PROTECTION AGENCY
EXPOSURE ASSESSMENT
MULTIMEDIA MODEL

MULTIMED (Version 1.50, 2005)

Switched to Stehfest algorithm to avoid numerical problems
with Convolution algorithm. Problems were caused by
high source decay rate. Everything ok now, execution continuing...

Run options

Mewbourne Oil Company

Dagger Draw Trunk Line
Chemical simulated is Chloride

Option Chosen Saturated and unsaturated zone models
Run was DETERMIN
Infiltration Specified By User: 7.620E-03 m/yr
Run was transient
Well Times: Find Maximum Concentration
Reject runs if Y coordinate outside plume
Reject runs if Z coordinate outside plume
Gaussian source used in saturated zone model

UNSATURATED ZONE FLOW MODEL PARAMETERS
(input parameter description and value)

NP	- Total number of nodal points	240
NMAT	- Number of different porous materials	6
KPROP	- Van Genuchten or Brooks and Corey	1
IMSHGN	- Spatial discretization option	1
NVFLAYR	- Number of layers in flow model	6

OPTIONS CHOSEN

Van Genuchten functional coefficients
User defined coordinate system

Layer information

LAYER NO.	LAYER THICKNESS	MATERIAL PROPERTY
1	1.52	1

2	0.31	1
3	0.61	1
4	2.13	1
5	1.52	1
6	11.00	1

DATA FOR MATERIAL 1

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	5.00	-999.	-999.	-999.
Unsaturated zone porosity	--	CONSTANT	0.500	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	0.200	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	17.1	0.000	0.000	0.000

DATA FOR MATERIAL 1

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Residual water content	--	CONSTANT	0.100	-999.	-999.	-999.
Brook and Corey exponent, EN	--	CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.500E-01	-999.	-999.	-999.
Van Genuchten exponent, ENN	--	CONSTANT	1.50	-999.	-999.	-999.

DATA FOR MATERIAL 2

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	0.500E-01	-999.	-999.	-999.
Unsaturated zone porosity	--	CONSTANT	0.200	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	1.00	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	17.1	0.000	0.000	0.000

DATA FOR MATERIAL 2

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Residual water content	--	CONSTANT	0.700E-01	-999.	-999.	-999.
Brook and Corey exponent, EN	--	CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.500E-02	-999.	-999.	-999.
Van Genuchten exponent, ENN	--	CONSTANT	1.50	-999.	-999.	-999.

DATA FOR MATERIAL 3

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	0.100E-02	-999.	-999.	-999.
Unsaturated zone porosity	--	CONSTANT	0.450	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	0.300	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	17.1	0.000	0.000	0.000

DATA FOR MATERIAL 3

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Residual water content	--	CONSTANT	0.100	-999.	-999.	-999.
Brook and Corey exponent, EN	--	CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.100E-01	-999.	-999.	-999.
Van Genuchten exponent, ENN	--	CONSTANT	1.20	-999.	-999.	-999.

DATA FOR MATERIAL 4

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	0.500E-01	-999.	-999.	-999.
Unsaturated zone porosity	--	CONSTANT	0.200	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	1.00	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	17.1	0.000	0.000	0.000

DATA FOR MATERIAL 4

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Residual water content	--	CONSTANT	0.700E-01	-999.	-999.	-999.
Brook and Corey exponent, EN	--	CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.500E-02	-999.	-999.	-999.
Van Genuchten exponent, ENN	--	CONSTANT	1.50	-999.	-999.	-999.

DATA FOR MATERIAL 5

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	20.0	-999.	-999.	-999.
Unsaturated zone porosity	--	CONSTANT	0.350	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	0.200	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	17.1	0.000	0.000	0.000

DATA FOR MATERIAL 5

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Residual water content	--	CONSTANT	0.500E-01	-999.	-999.	-999.
Brook and Corey exponent, EN	--	CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.500E-01	-999.	-999.	-999.
Van Genuchten exponent, ENN	--	CONSTANT	1.80	-999.	-999.	-999.

DATA FOR MATERIAL 6

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	0.500	-999.	-999.	-999.
Unsaturated zone porosity	--	CONSTANT	0.400	-999.	-999.	-999.

Air entry pressure head	m	CONSTANT	0.600	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	17.1	0.000	0.000	0.000

```

DATA FOR MATERIAL 6
-----
VADOSE ZONE FUNCTION VARIABLES

```

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Residual water content	--	CONSTANT	0.800E-01	-999.	-999.	-999.
Brook and Corey exponent, EN	--	CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.200E-01	-999.	-999.	-999.
Van Genuchten exponent, ENN	--	CONSTANT	1.50	-999.	-999.	-999.

UNSATURATED ZONE TRANSPORT MODEL PARAMETERS

NLAY	- Number of different layers used	6
NTSTPS	- Number of time values concentration calc	40
DUMMY	- Not presently used	1
ISOL	- Type of scheme used in unsaturated zone	1
N	- Stehfest terms or number of increments	18
NTEL	- Points in Lagrangian interpolation	3
NGPTS	- Number of Gauss points	104
NIT	- Convolution integral segments	2
IBOUND	- Type of boundary condition	3
ITSGEN	- Time values generated or input	1
TMAX	- Max simulation time	-- 0.0
WTFUN	- Weighting factor	-- 1.2

OPTIONS CHOSEN

Stehfest numerical inversion algorithm
Exponentially decaying continuous source
Computer generated times for computing concentrations

DATA FOR LAYER 1

VADOSE TRANSPORT VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Thickness of layer	m	CONSTANT	1.52	-999.	-999.	-999.
Longitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.
Percent organic matter	--	CONSTANT	0.000	-999.	-999.	-999.
Bulk density of soil for layer	g/cc	CONSTANT	1.99	-999.	-999.	-999.

Biological decay coefficient 1/yr CONSTANT 0.000 -999. -999. -999.

DATA FOR LAYER 2

VADOSE TRANSPORT VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Thickness of layer	m	CONSTANT	0.310	-999.	-999.	-999.
Longitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.
Percent organic matter	--	CONSTANT	0.000	-999.	-999.	-999.
Bulk density of soil for layer	g/cc	CONSTANT	1.99	-999.	-999.	-999.
Biological decay coefficient	1/yr	CONSTANT	0.000	-999.	-999.	-999.

DATA FOR LAYER 3

VADOSE TRANSPORT VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Thickness of layer	m	CONSTANT	0.610	-999.	-999.	-999.
Longitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.
Percent organic matter	--	CONSTANT	0.000	-999.	-999.	-999.
Bulk density of soil for layer	g/cc	CONSTANT	1.99	-999.	-999.	-999.
Biological decay coefficient	1/yr	CONSTANT	0.000	-999.	-999.	-999.

DATA FOR LAYER 4

VADOSE TRANSPORT VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Thickness of layer	m	CONSTANT	2.13	-999.	-999.	-999.
Longitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.
Percent organic matter	--	CONSTANT	0.000	-999.	-999.	-999.
Bulk density of soil for layer	g/cc	CONSTANT	1.50	-999.	-999.	-999.
Biological decay coefficient	1/yr	CONSTANT	0.000	-999.	-999.	-999.

DATA FOR LAYER 5

VADOSE TRANSPORT VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Thickness of layer	m	CONSTANT	1.52	-999.	-999.	-999.
Longitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.
Percent organic matter	--	CONSTANT	0.000	-999.	-999.	-999.
Bulk density of soil for layer	g/cc	CONSTANT	1.50	-999.	-999.	-999.
Biological decay coefficient	1/yr	CONSTANT	0.000	-999.	-999.	-999.

DATA FOR LAYER 6

VADOSE TRANSPORT VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Thickness of layer	m	CONSTANT	11.0	-999.	-999.	-999.
Longitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.
Percent organic matter	--	CONSTANT	0.000	-999.	-999.	-999.
Bulk density of soil for layer	g/cc	CONSTANT	1.50	-999.	-999.	-999.
Biological decay coefficient	1/yr	CONSTANT	0.000	-999.	-999.	-999.

CHEMICAL SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Solid phase decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.
Dissolved phase decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.
Overall chemical decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.
Acid catalyzed hydrolysis rate	1/M-yr	CONSTANT	0.000	-999.	-999.	-999.
Neutral hydrolysis rate constant	1/yr	CONSTANT	0.000	-999.	-999.	-999.
Base catalyzed hydrolysis rate	1/M-yr	CONSTANT	0.000	-999.	-999.	-999.
Reference temperature	C	CONSTANT	25.0	-999.	-999.	-999.
Normalized distribution coefficient	ml/g	CONSTANT	0.000	-999.	-999.	-999.
Distribution coefficient	--	DERIVED	-999.	-999.	-999.	-999.
Biodegradation coefficient (sat. zone)	1/yr	CONSTANT	0.000	-999.	-999.	-999.
Air diffusion coefficient	cm2/s	CONSTANT	-999.	-999.	-999.	-999.
Reference temperature for air diffusion	C	CONSTANT	-999.	-999.	-999.	-999.
Molecular weight	g/M	CONSTANT	-999.	-999.	-999.	-999.
Mole fraction of solute	--	CONSTANT	-999.	-999.	-999.	-999.
Vapor pressure of solute	mm Hg	CONSTANT	-999.	-999.	-999.	-999.
Henry`s law constant	atm-m^3/M	CONSTANT	-999.	-999.	-999.	-999.
Overall 1st order decay sat. zone	1/yr	DERIVED	0.000	0.000	0.000	1.00
Not currently used		CONSTANT	0.000	0.000	0.000	0.000
Not currently used		CONSTANT	0.000	0.000	0.000	0.000

SOURCE SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Infiltration rate	m/yr	CONSTANT	0.762E-02	-999.	-999.	-999.
Area of waste disposal unit	m^2	CONSTANT	774.	-999.	-999.	-999.
Duration of pulse	yr	DERIVED	0.100E-08	-999.	-999.	-999.
Spread of contaminant source	m	DERIVED	-999.	-999.	-999.	-999.
Recharge rate	m/yr	CONSTANT	0.000	-999.	-999.	-999.
Source decay constant	1/yr	CONSTANT	0.250E-01	0.000	0.000	0.000
Initial concentration at landfill	mg/l	CONSTANT	0.730E+04	-999.	-999.	-999.
Length scale of facility	m	DERIVED	-999.	-999.	-999.	-999.
Width scale of facility	m	DERIVED	-999.	-999.	-999.	-999.
Near field dilution		DERIVED	1.00	0.000	0.000	1.00

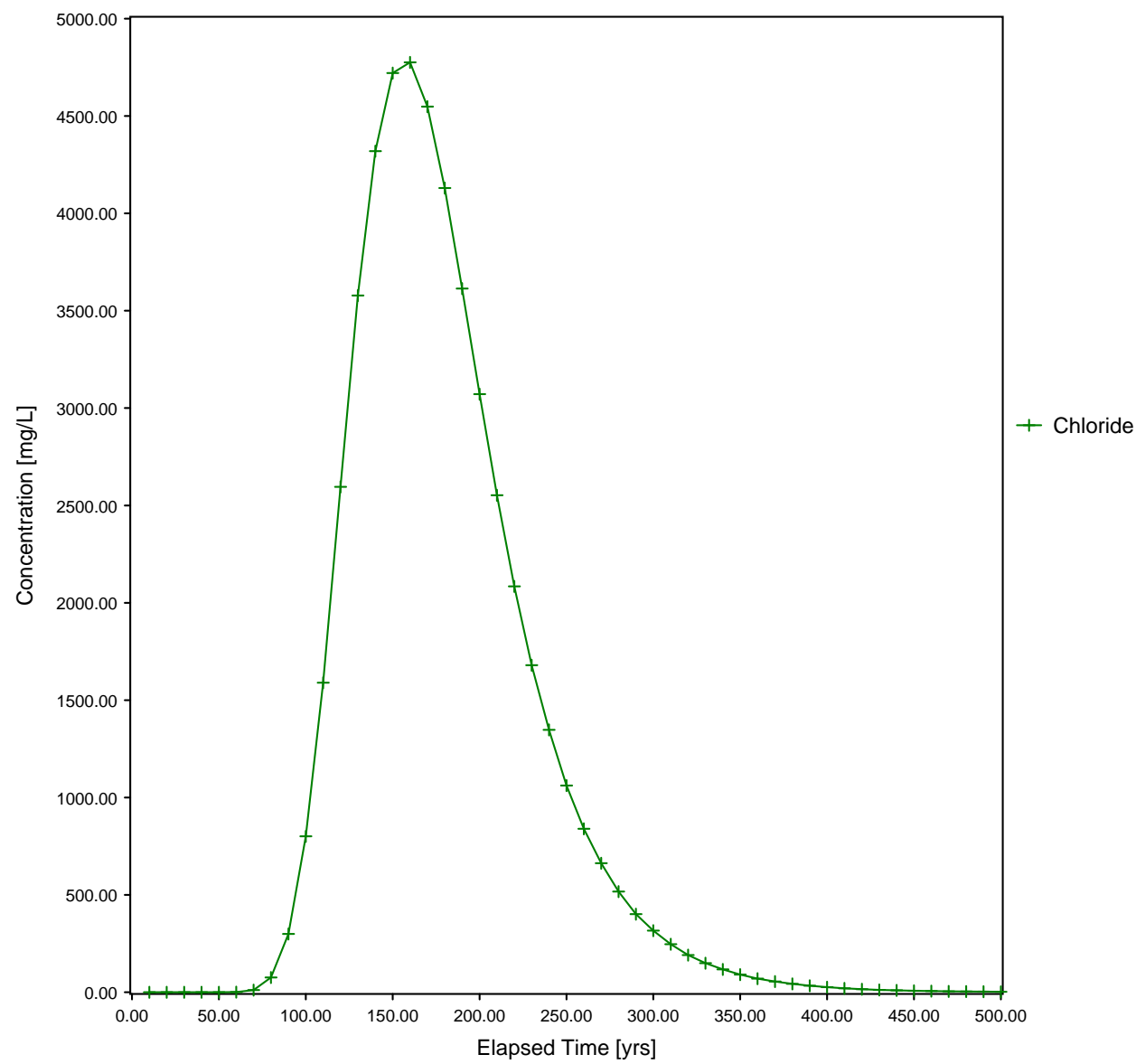
AQUIFER SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Particle diameter	cm	CONSTANT	-999.	-999.	-999.	-999.
Aquifer porosity	--	CONSTANT	0.300	-999.	-999.	-999.
Bulk density	g/cc	CONSTANT	1.86	-999.	-999.	-999.
Aquifer thickness	m	CONSTANT	6.10	-999.	-999.	-999.
Source thickness (mixing zone depth)	m	DERIVED	-999.	-999.	-999.	-999.
Conductivity (hydraulic)	m/yr	CONSTANT	315.	-999.	-999.	-999.
Gradient (hydraulic)		CONSTANT	0.300E-02	-999.	-999.	-999.
Groundwater seepage velocity	m/yr	DERIVED	-999.	-999.	-999.	-999.
Retardation coefficient	--	DERIVED	-999.	-999.	-999.	-999.
Longitudinal dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.
Transverse dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.
Vertical dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.
Temperature of aquifer	C	CONSTANT	20.0	-999.	-999.	-999.
pH	--	CONSTANT	7.00	-999.	-999.	-999.
Organic carbon content (fraction)		CONSTANT	0.000	-999.	-999.	-999.
Well distance from site	m	CONSTANT	1.00	-999.	-999.	-999.
Angle off center	degree	CONSTANT	0.000	-999.	-999.	-999.
Well vertical distance	m	CONSTANT	0.000	-999.	-999.	-999.

MAXIMUM WELL CONCENTRATION IS 166.8 AT 500 YEARS

Chloride Concentration at the Receptor Well (No Liner)

Mewbourne Oil Company
Dagger Draw Trunk Line



Released to Imaging 9/9/2025 3:22:07 PM

Received by OCD: 8/11/2025 8:21:46 AM

U. S. ENVIRONMENTAL PROTECTION AGENCY
EXPOSURE ASSESSMENT
MULTIMEDIA MODEL
MULTIMED (Version 1.50, 2005)

1
Run options

Mt. Airbourne Oil Company
Deer Draw Trunk Line
Chemical simulated is Chloride

Option Chosen Saturated and unsaturated zone models
Run was DETERMIN
Infiltration Specified By User: 3.048E-02 m/yr
Run was transient
Well Times: Find Maximum Concentration
Reject runs if Y coordinate outside plume
Reject runs if Z coordinate outside plume
Gaussian source used in saturated zone model

1
1
UNSATURATED ZONE FLOW MODEL PARAMETERS
(input parameter description and value)
NP - Total number of nodal points 240
NMAT - Number of different porous materials 4
KPROP - Van Genuchten or Brooks and Corey 1
IMSHGN - Spatial discretization option 1
NVFLAYR - Number of layers in flow model 4

OPTIONS CHOSEN

Van Genuchten functional coefficients
User defined coordinate system

1

Layer information

LAYER NO.	LAYER THICKNESS	MATERIAL PROPERTY
1	1.52	1
2	3.05	1
3	1.52	1
4	11.00	1

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	5.00	-999.	-999.	-999.
Unsaturated zone porosity	--	CONSTANT	0.500	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	0.200	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	17.1	0.000	0.000	0.000

DATA FOR MATERIAL 1

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Residual water content	--	CONSTANT	0.100	-999.	-999.	-999.
Brook and Corey exponent, EN	--	CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.500E-01	-999.	-999.	-999.
Van Genuchten exponent, ENN	--	CONSTANT	1.50	-999.	-999.	-999.

DATA FOR MATERIAL 2

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	0.500E-01	-999.	-999.	-999.
Unsaturated zone porosity	--	CONSTANT	0.200	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	1.00	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	17.1	0.000	0.000	0.000

DATA FOR MATERIAL 2

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Residual water content	--	CONSTANT	0.700E-01	-999.	-999.	-999.
Brook and Corey exponent, EN	--	CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.500E-02	-999.	-999.	-999.
Van Genuchten exponent, ENN	--	CONSTANT	1.50	-999.	-999.	-999.

DATA FOR MATERIAL 3

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	20.0	-999.	-999.	-999.
Unsaturated zone porosity	--	CONSTANT	0.350	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	0.200	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	17.1	0.000	0.000	0.000

DATA FOR MATERIAL 3

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Residual water content	--	CONSTANT	0.500E-01	-999.	-999.	-999.
Brook and Corey exponent, EN	--	CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.500E-01	-999.	-999.	-999.
Van Genuchten exponent, ENN	--	CONSTANT	1.80	-999.	-999.	-999.

DATA FOR MATERIAL 4

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	0.500	-999.	-999.	-999.
Unsaturated zone porosity	--	CONSTANT	0.400	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	0.600	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	17.1	0.000	0.000	0.000

DATA FOR MATERIAL 4

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Residual water content	--	CONSTANT	0.800E-01	-999.	-999.	-999.
Brook and Corey exponent, EN	--	CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.200E-01	-999.	-999.	-999.
Van Genuchten exponent, ENN	--	CONSTANT	1.50	-999.	-999.	-999.

1 NLAY - Number of different layers used 4
NTSTPS - Number of time values concentration calc 40
DUMMY - Not presently used 1
NOL - Type of scheme used in unsaturated zone 2
N - Stehfest terms or number of increments 18
NDEL - Points in Lagrangian interpolation 3
NPTS - Number of Gauss points 104
NINT - Convolution integral segments 2
IBOUND - Type of boundary condition 3
ISGEN - Time values generated or input 1
TMAX - Max simulation time -- 0.0
WEIGHTUN - Weighting factor -- 1.2

1 OPTIONS CHOSEN

Convolution integral approach
Exponentially decaying continuous source
Computer generated times for computing concentrations

DATA FOR LAYER 1

VADOSE TRANSPORT VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Thickness of layer	m	CONSTANT	1.52	-999.	-999.	-999.
Longitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.
Percent organic matter	--	CONSTANT	0.000	-999.	-999.	-999.
Bulk density of soil for layer	g/cc	CONSTANT	1.99	-999.	-999.	-999.
Biological decay coefficient	1/yr	CONSTANT	0.000	-999.	-999.	-999.

DATA FOR LAYER 2

VADOSE TRANSPORT VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Thickness of layer	m	CONSTANT	3.05	-999.	-999.	-999.
Longitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.
Percent organic matter	--	CONSTANT	0.000	-999.	-999.	-999.
Bulk density of soil for layer	g/cc	CONSTANT	1.99	-999.	-999.	-999.
Biological decay coefficient	1/yr	CONSTANT	0.000	-999.	-999.	-999.

DATA FOR LAYER 3

VADOSE TRANSPORT VARIABLES

Area of waste disposal unit	m^2	CONSTANT	774.	-999.	-999.	-999.
Duration of pulse	yr	DERIVED	0.100E-08	-999.	-999.	-999.
Spread of contaminant source	m	DERIVED	-999.	-999.	-999.	-999.
Recharge rate	m/yr	CONSTANT	0.000	-999.	-999.	-999.
Source decay constant	1/yr	CONSTANT	0.250E-01	0.000	0.000	0.000
Initial concentration at landfill	mg/l	CONSTANT	0.224E+05	-999.	-999.	-999.
Length scale of facility	m	DERIVED	-999.	-999.	-999.	-999.
Width scale of facility	m	DERIVED	-999.	-999.	-999.	-999.
Near field dilution		DERIVED	1.00	0.000	0.000	1.00

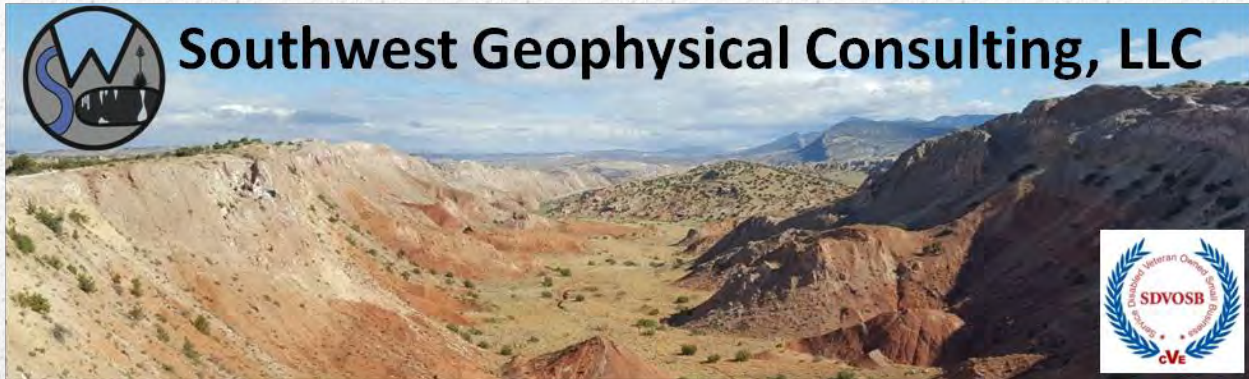
AQUIFER SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS			LIMITS	
			MEAN	STD	DEV	MIN	MAX
Particle diameter	cm	CONSTANT	-999.	-999.		-999.	-999.
Aquifer porosity	--	CONSTANT	0.300	-999.		-999.	-999.
Bulk density	g/cc	CONSTANT	1.86	-999.		-999.	-999.
Aquifer thickness	m	CONSTANT	6.10	-999.		-999.	-999.
Source thickness (mixing zone depth)	m	DERIVED	-999.	-999.		-999.	-999.
Conductivity (hydraulic)	m/yr	CONSTANT	315.	-999.		-999.	-999.
Gradient (hydraulic)		CONSTANT	0.300E-02	-999.		-999.	-999.
Groundwater seepage velocity	m/yr	DERIVED	-999.	-999.		-999.	-999.
Retardation coefficient	--	DERIVED	-999.	-999.		-999.	-999.
Longitudinal dispersivity	m	FUNCTION OF X	-999.	-999.		-999.	-999.
Transverse dispersivity	m	FUNCTION OF X	-999.	-999.		-999.	-999.
Vertical dispersivity	m	FUNCTION OF X	-999.	-999.		-999.	-999.
Temperature of aquifer	C	CONSTANT	20.0	-999.		-999.	-999.
pH	--	CONSTANT	7.00	-999.		-999.	-999.
Organic carbon content (fraction)		CONSTANT	0.000	-999.		-999.	-999.
Well distance from site	m	CONSTANT	1.00	-999.		-999.	-999.
Angle off center	degree	CONSTANT	0.000	-999.		-999.	-999.
Well vertical distance	m	CONSTANT	0.000	-999.		-999.	-999.

MAXIMUM WELL CONCENTRATION IS 4815 AT 158 YEARS

Appendix F

Karst Survey



Cave and Karst Resource Inventory Report Dagger Draw Trunkline Release Eddy County, New Mexico

Prepared for:

**eTech Environmental & Safety Solutions, Inc.
2617 West Marland Blvd.
Hobbs, NM 88240**

- ☐ Positive within 200 feet of release footprint
- ☒ Negative within 200 feet of release footprint

August 23, 2024

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1.0 INTRODUCTION

An environmental karst survey was commissioned by eTech Environmental and Safety Solutions, Inc. (hereinafter referred to as "the client"), on July 16, 2024, for the purpose of determining the presence of karst-related surface features within the Dagger Draw Trunkline Release project site (hereinafter termed "DDTL").

As indicated in section **1.3 Affected Environment**, the bedrock and overlying soil at the survey site are susceptible to sinkhole development and karst features may be hidden beneath the existing soil stratum. Risk associated with sinkhole formation can be minimized during remediation by conducting a geophysical survey, and by the control of site hydrology. The owner/developer must recognize, however, that a risk of sinkhole collapse during remediation processes does exist. The owner/developer must evaluate the risks and attendant costs of not performing a geophysical survey prior to remediation and must be willing to accept these risks if it is decided that the cave survey is sufficient. Southwest Geophysical Consulting can provide a geophysical survey. If the decision is made to conduct a geophysical survey, a cost estimate and timeline will be provided upon request.

1.1 Goals of this Study

To provide the client with the location and description of any surface karst-related features within 200 meters of the spill delineation boundary for the DDTL project site as provided by the client (**Dagger Draw Trunk Line GeoMeasure_2024-03-22-10-36-07**) via e-mail on July 16, 2024.

1.2 Summary of Findings

No surface karst features are located within 200 feet (61 meters) of the spill delineation boundary.

Pseudokarst (soil piping) was observed within the survey area. While not karst, soil piping still presents a trip and fall hazard for personnel, and tipping hazard for equipment and should be avoided if possible.

The lack of surface karst features does not mean the area is not karstified and the survey area may still contain buried karst features. Caution should be exercised while clearing brush and during any excavation, trenching, or construction operations. Employing a Bureau of Land Management approved karst monitor on site during these operations should be considered.

1.3 Affected Environment

The DDTL project is located in evaporite karst terrain, a landform that is characterized by underground drainage through solutionally enlarged conduits. Evaporite karst terrain may contain sinkholes, sinking streams, caves, and springs. Sinkholes leading to underground drainages and voids are common. These karst features, as well as occasional fissures and discontinuities in the bedrock, provide the primary sources for rapid recharge of the groundwater aquifers of the region. Karst may develop by hypogene processes involving dissolution by upwelling fluids from depth independent of recharge from the overlying or immediately adjacent surface. Hypogene karst systems may not be connected to the surface and can remain undiscovered unless encountered during drilling or excavation.

Karst features are delicate resources that are often of geological, hydrological, biological, and archeological importance, and should be protected. The three primary concerns in these types of terrain are environmental issues, worker safety, and infrastructure integrity.

The Bureau of Land Management (BLM) categorizes all areas within the Carlsbad Field Office (CFO) zone of responsibility as having either low, medium, high, or critical cave potential based on geology, occurrence of known caves, density of karst features, and potential impacts to freshwater aquifers^[1]. These designations are also recognized by the New Mexico State Land Office (NMSLO). This project occurs within a **HIGH** karst occurrence zone (HKOZ)^[2] (**Figure 1**).

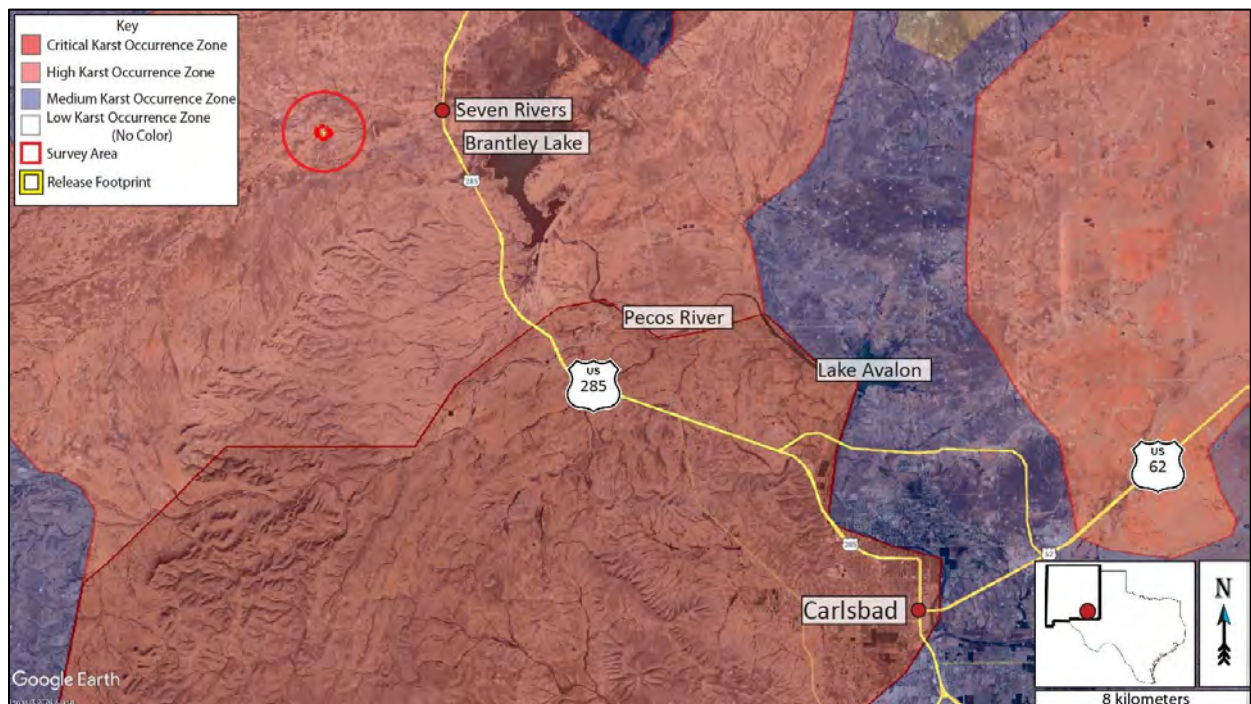


Figure 1: Karst occurrence zone overview. Background image: Google Earth. Image date: January 8, 2024. Datum: WGS-84.

A high karst occurrence zone is defined as an area in known soluble rock types that contains a high frequency of significant caves and karst features such as sinkholes, bedrock fractures that provide rapid recharge of karst aquifers, and springs that provide riparian habitat^[1].

1.4 Limitations of Report

This report should be read in full. No responsibility is accepted for use of any part of this report in any other context or for any other purpose or by third parties. This report does not purport to give legal advice. Legal advice can only be given by qualified legal practitioners.

This report has been prepared for the use of eTech Environmental & Safety Solutions, Inc., in accordance with generally accepted consulting practices. Every effort has been made to ensure the information in this report is accurate as of the time of its writing. This report has not been prepared for use by parties other than the client, their contracting party, and their respective advisors. It may not contain sufficient information for the purposes of other parties or for other uses.

This report was prepared upon completion of the associated fieldwork using a standard template prepared by Southwest Geophysical Consulting and is based on information collected prior to fieldwork, conditions encountered on site, and data collected during the fieldwork and reviewed at the time of preparation. Southwest Geophysical Consulting disclaims responsibility for any changes that might have occurred at the site after this time. The interpreted results, locations, and depths noted in this report (if applicable) should be taken as an interpretation only and no decision should be based solely on this information. Physical verification of aerial imagery analysis results in the field should be conducted prior to conducting any remediation activities if these activities will impinge into the recommended buffers.

To the best of our knowledge, information contained in this report is accurate at the date of issue; however, conditions on the site can change in a limited time and, therefore, the information in this report shall not be used beyond three years past the date of imagery collection (see section **2.3 Description of Survey**).

2.0 LOCATION AND DESCRIPTION OF STUDY AREA

2.1 Description of Site

The DDTL project site is located in Eddy County, New Mexico, 29 kilometers (18 miles) northwest of Carlsbad, New Mexico, west of US285, at and just north of the South Seven Rivers arroyo (**Figure 1** and **Figure 2**). The survey area is within sections 10 and 15 of NM T20S R25E^[3]. The region is semi-arid with an average annual precipitation of approximately 13 inches, of which about two-thirds falls as rain during summer thunderstorms from June to October. Summers are hot and sunny while winters are generally mild, with an average maximum temperature of 96°F in July and an average minimum temperature of 28°F in January^[4]. This area is within the Chihuahuan Desert Thornscrub as defined by the Southwestern Regional ReGAP Vegetation map^[5] and the vegetation consists mostly of areas of grass, sparse creosote, and sparse yucca, with very good visibility in most locations. See section **2.2 Local Geology** for the geology of the area. The project site is located entirely within an HKOZ^[2] (**Figure 1**) and within privately managed land^[6] (**Figure 2**).

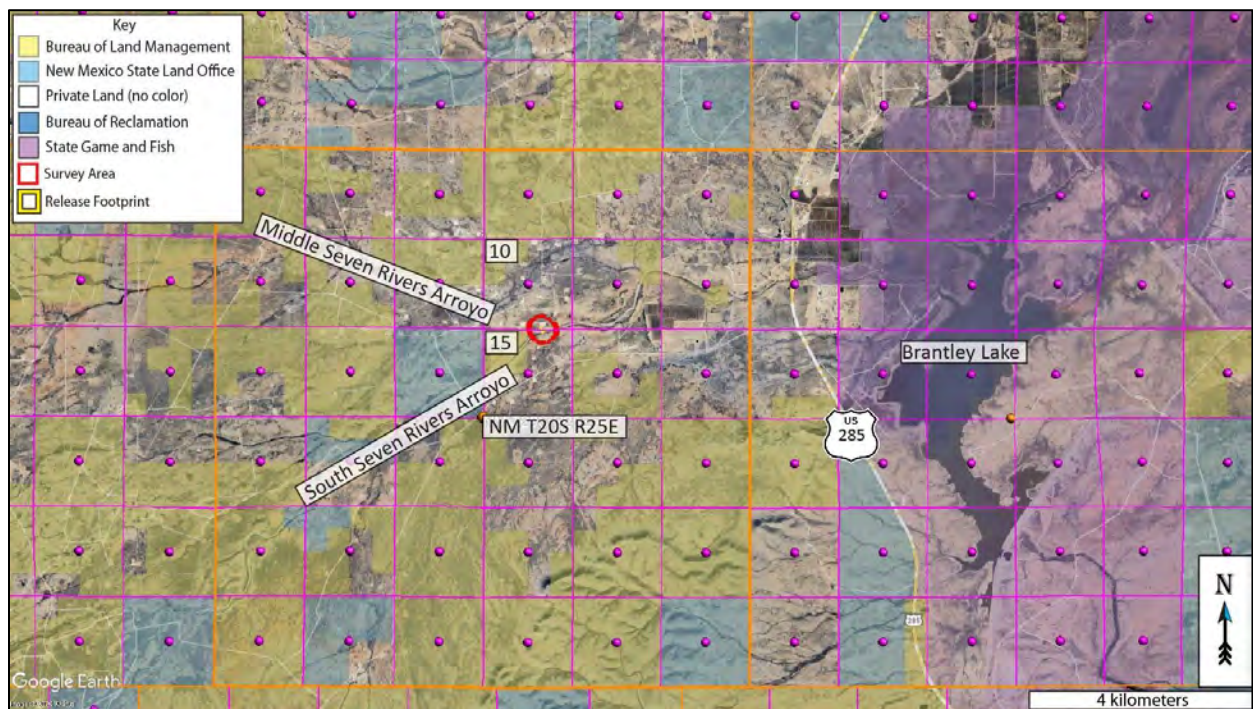


Figure 2: Land ownership^[6] and PLSS^[3] overview. Background image credit: Google Earth. Image date: January 8, 2024. Datum: WGS-84.

2.2 Local Geology

The area surveyed for the DDTL project is located at an elevation of 1,037 meters (3,402 feet), \pm 7 meters (23 feet), and is underlain by the Permian Artesia Group (Pat). The area is mantled by thin gypsiferous soils and Quaternary piedmont gravels (Qp)^[7] between 0 and 6 meters in depth (**Figure 3**).

The Artesia Group consists of the Greyburg and Queen Formations (Pqg), the Seven Rivers Formation (Psr), the Yates Formation (Py), and the Tansill Formation (Pt)^[8]. At this location, it is most likely that the Seven Rivers Formation immediately underlies the Quaternary units, and that the Yates and Tansill have been eroded away.

The Seven Rivers is a back-reef facies containing interbeds of dolomite and gypsum with occasional sandstone lenses and thickly bedded anhydrite. Both the dolomite and gypsum/anhydrite are subject to karst formation. From north to south, the Seven Rivers transitions from an evaporite facies to a basin facies near the reef escarpment. This facies is prone to karst formation, especially along the contact with the Capitan Reef Front further to the south^[8].

The Seven Rivers overlies the Permian Queen Formation, a calcite rich siliciclastic unit^[8]. Beneath the Queen lies the Greyburg, a dolomitic limestone.

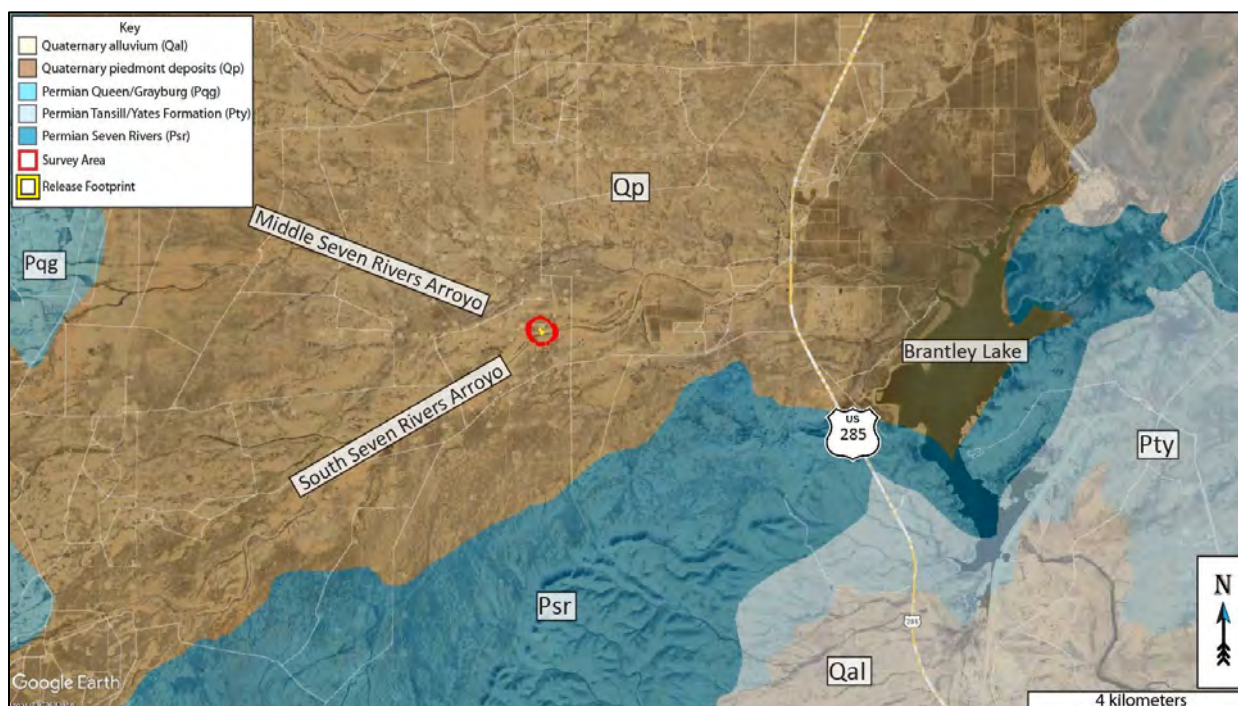


Figure 3: Geology overview. Map credit: The Digital Geologic Map of New Mexico in ARC/INFO Format^[9], and Google Earth. Image date: January 8, 2024. Datum: WGS-84.

2.3 Description of Survey

Southwest Geophysical Consulting, in partnership with SWCA Environmental Consultants, provides aerial karst surveys using drones that are flown by qualified, FAA licensed drone pilots and that meet the stringent Bureau of Land Management – Carlsbad Field Office requirements for both pedestrian and aerial karst surveys. In addition, a field investigation was conducted at the request of the client to determine whether subsidence occurring at the site was karst-related.

Aerial karst surveys are conducted at low elevation following a preplanned raster pattern flightpath designed for the purpose of generating at least 75% imagery overlap. The collected high-resolution, georeferenced imagery is stitched together to develop orthomosaic imagery which is further developed into a digital elevation model (DEM); the DEM is then processed into a local relief model (LRM) (**Figure 4**). This LRM is color coded to enhance differences in elevation of as little as five centimeters. The orthoimagery, DEM, and LRM are uploaded to a server where they are analyzed by a highly qualified karst geologist. Finally, the data is reviewed by a senior karst geologist for quality assurance and downloaded into a table for inclusion in a written report^[10].

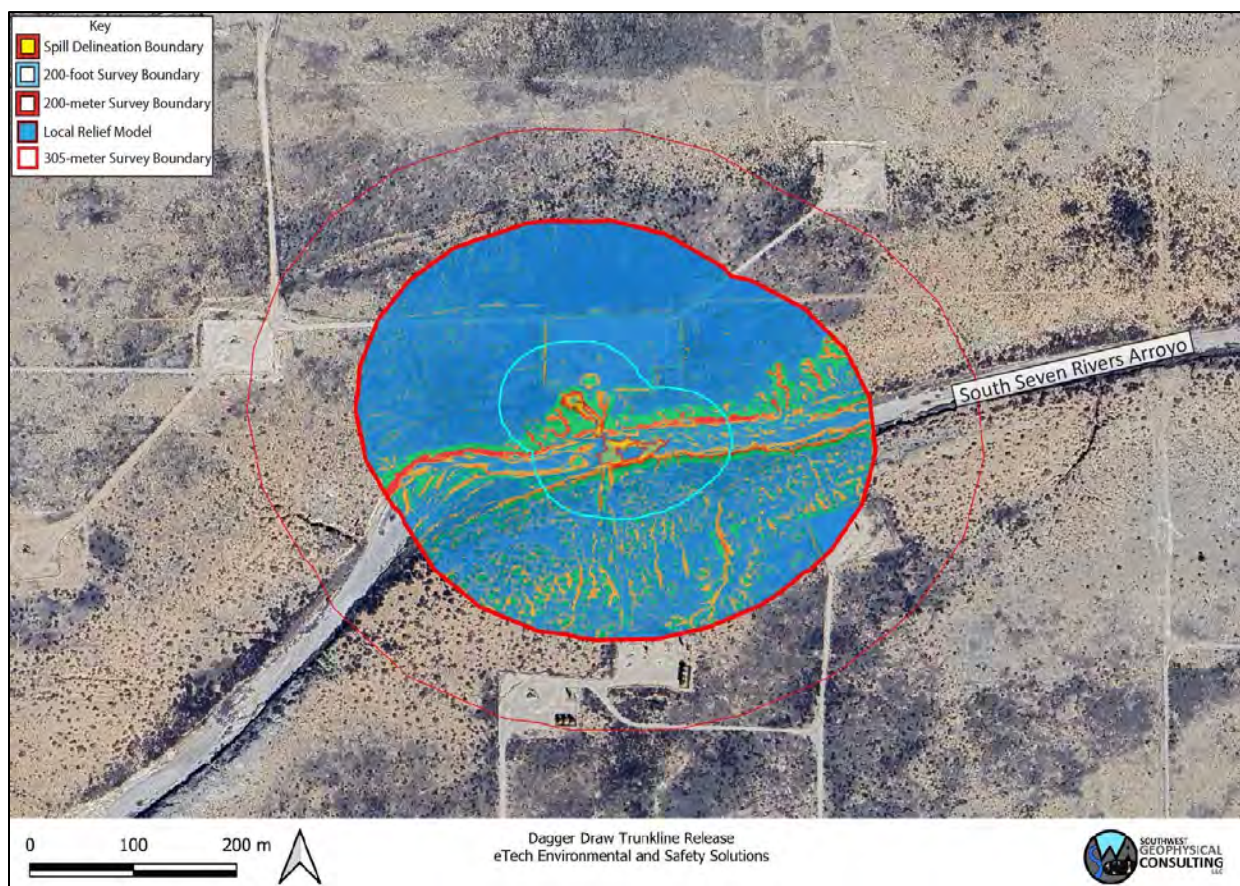


Figure 4: Survey overview. Background image credit: Google Earth. Image date: December 21, 2019. Datum: WGS-84.

Resolution of the orthoimagery is clear enough that features as small as 10 centimeters can be positively identified in most circumstances. Occasionally there are ambiguous features identified during an aerial survey that will need to be checked in the field if they are impacted by the release. Specifically, it is difficult to tell the difference between solution tubes, abandoned uncased well bores, and some burrows in drone imagery^[11]. These features are marked with yellow dots in **Figure 4**. If a feature of any type is subsequently verified in the field prior to publication of the report, the dot will be changed to red triangle if confirmed as a karst feature or deleted if not.

The field investigation was conducted by Steven Kesler of Southwest Geophysical Consulting on July 16, 2024. It was determined that the subsidence was related to pseudokarst (soil piping) and not karst-related. These types of features can still be a trip and fall hazard to personnel and a tipping hazard to equipment and should be avoided if possible. Images available on request.

The imagery for the DDTL study was collected via aerial survey by Pat Lagodney of SWCA on July 21, 2024. Surface karst features may have developed after this date and will not be noted in this report. Imagery analysis was completed by Dave Decker of Southwest Geophysical Consulting on July 28, 2024.

Prior to conducting the aerial karst surveys, a surface karst desk study was performed by Southwest Geophysical Consulting. The study was performed using satellite and aerial imagery from Google Earth Pro dated December 21, 2019 (please note features less than one meter in diameter are generally not visible); the Southwest Geophysical Cave and Karst Database dated December 31, 2023^[11]; and the Seven Rivers, NM, 1:24,000 quad, 1954, USGS topographic map. Please note that we use older topographic maps because newer maps have had caves removed from them. These searches and queries returned no results within the 305-meter (1,000-foot) survey boundary^[12,13].

2.4 Description of Karst Features

No surface karst features are located within 200 feet (61 meters) of the spill delineation boundary^[13, 12] (Figure 4).

The lack of surface karst features does not mean the area is not karstified. Please be aware that the area may contain buried karst features. Caution is advised while clearing brush and during trenching and excavation activities. Employing a BLM-CFO approved karst monitor on site during these activities should be considered.

Three small subsidence zones were found within the excavation (**Figure 5**). The subsidence is related to soil piping along trenches and previously established surface flow paths that were buried at some point. It was also noted that soil piping occurs near the northern edge of the South Seven Rivers arroyo, within the survey boundary.

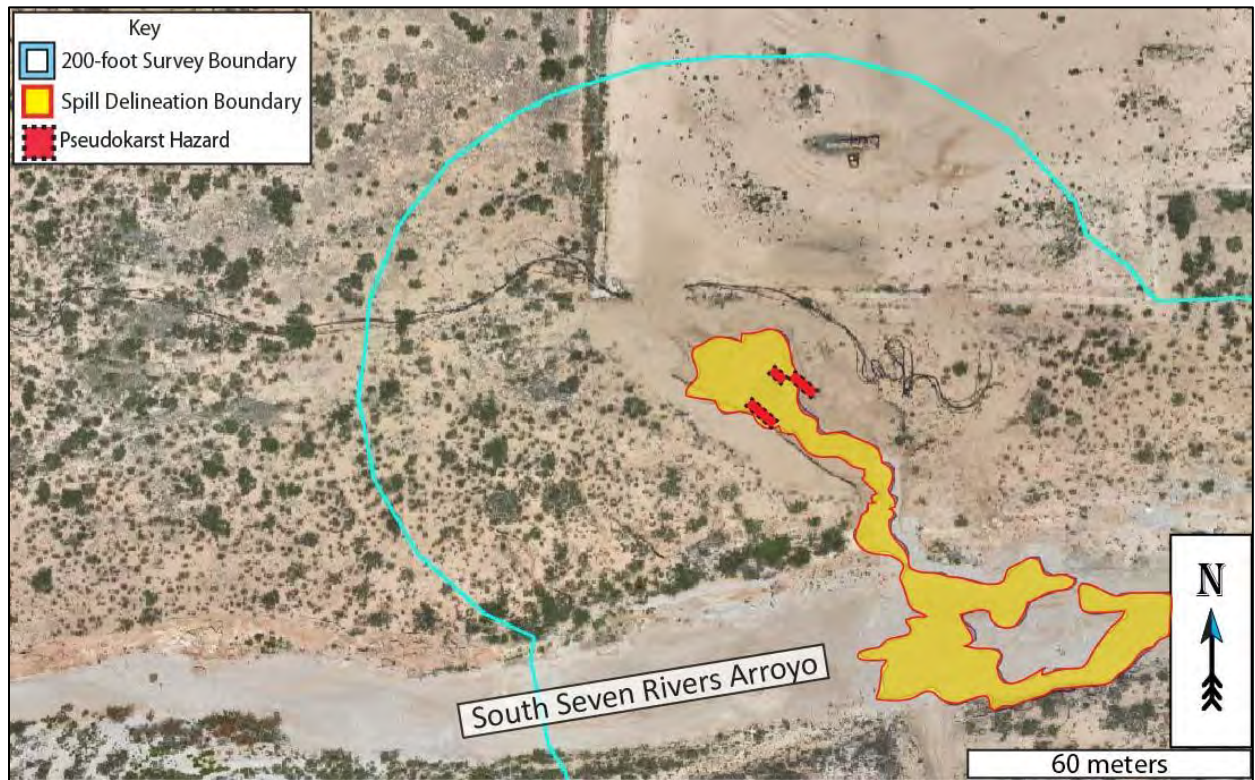


Figure 5: Survey closeup. Background image credit: Google Earth. Image date: December 21, 2019. Datum: WGS-84.

3.0 RECOMMENDATIONS

3.1 Summary

- **No surface karst features are located within 200 feet (61 meters) of the spill delineation boundary.**
- Pseudokarst (soil piping) was identified within the aerial survey area, which may pose a hazard to equipment and personnel.
- Even though no surface karst features were found within the aerial karst survey boundary, this area has karst features nearby and may contain buried karst features.
- Caution should be exercised while clearing brush and during any excavation, trenching, drilling, or remediation operations.
- Employing a BLM-CFO approved karst monitor during excavation or remediation operations should be considered.

3.2 Best Practices

This area may be prone to rapid karst formation in the underlying stratigraphy and warrants careful planning and engineering to mitigate karst-forming processes that could be accelerated by poor planning and considerations. Proper practices following karst guidelines should be implemented during all phases of remediation. Mitigation measures for any karst features revealed during excavation or drilling shall be approved by the Bureau of Land Management – Carlsbad Field Office and follow the Natural Resources Conservation Service Conservation Practice Standard for Karst Sinkhole Treatment, Code 527, or the Bureau of Land Management Cave and Karst Management Handbook, H-8380-1.

Keep in mind that any flow of gypsum-undersaturated waters into a small crack or crevice can rapidly dissolve any underlying gypsum and cause failure of an impoundment or infrastructure within a matter of months to a few years.

Vigilance during remediation is paramount. If voids are encountered during excavation or drilling, contact the Bureau of Land Management Karst Division at (575) 234-5972, the New Mexico State Land Office Surface Resources Division at (505) 827-5768, or a BLM-CFO approved karst vendor and request an on-site investigation from a karst expert if one is not already on site. A karst consultant can generally be available in Eddy County within five hours.

Approved karst monitors should have karst feature identification training, at least two years of supervised experience identifying karst features, wilderness first aid training, SRT training, confined space training, gas monitor training, and a minimum of SPAR cave rescue training through NCRC. They should have with them the proper gear and be prepared both physically and mentally to enter a collapse feature within minutes to perform a rescue if needed. Monitoring services with qualified karst monitors, as well as cave surveys and geophysical surveys, are available from Southwest Geophysical Consulting.

Under no circumstances should an untrained, inexperienced person enter a cave, pit, sinkhole, or collapse feature. All field employees of Southwest Geophysical Consulting have extensive caving experience and the ability to determine whether entry into a karst feature is safe or presents a hazard. In the event it is necessary to enter a karst feature, Southwest Geophysical Consulting can provide these services on request.

Cave and karst resource inventory reports for the BLM-CFO should be submitted to:

blm_nm_karst@blm.gov

Cave and karst resource inventory reports for the NMSLO should be submitted to the respective project manager.

4.0 REFERENCES

- 1 Goodbar, J. R. Vol. BLM Management Handbook H-8380-1 (ed Carlsbad Field Office) 59 (Bureau of Land Management, Denver, CO, 2015).
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- 3 Earthpoint. *Earthpoint Tools for Google Earth*, <<https://www.earthpoint.us/Townships.aspx>> (2022).
- 4 W.R.C.C. *National Climate Data Center 1981-2010 Normal Climate Summary for Carlsbad, New Mexico (291469)*, 2010).
- 5 Whitehead, W. & Flynn, C. *Plant Utilization in Southeastern New Mexico: Botany, Ethnobotany, and Archaeology*. (Bureau of Land Management, Carlsbad Field Office, 2017).
- 6 NMSLO. Digital overlay (KML) of the surface land ownership in New Mexico (New Mexico State Land Office, Santa Fe, NM, 2016).
- 7 Scholle, P. A. *Geologic Map of New Mexico*. (2003).
- 8 Silver, B. A. & Todd, R. G. Permian Cyclic Strata, Northern Midland and Delaware Basins, West Texas and Southeastern New Mexico. *The American Association of Petroleum Geologists Bulletin* **53**, 2223 - 2251 (1969).
- 9 Green, G. N. & Jones, G. E. *The Digital Geologic Map of New Mexico in ARC/INFO Format*, <<https://mrdata.usgs.gov/geology/state/state.php?state=NM>> (1997).
- 10 Whitehead, W., Bandy, M. & Decker, D. Protocol for Using UAV Photography for Rapid Assessment of Karst Features in Southeast New Mexico. *Proceedings of the 2022 Cave and Karst Management Symposium* (2022).
- 11 Decker, D. D. & Jorgensen, G. L. in *Southwest Geophysical Cave and Karst Database* (ed LLC Southwest Geophysical Consulting) (Albuquerque, NM, 2023).
- 12 Decker, D. & Jorgensen, G. L. *Environmental Karst Surveys White Paper* (Southwest Geophysical Consulting, LLC, 2024).
- 13 Division, O. C. *Title 19, Chapter 15, Part 29* (Oil Conservation Division, 2018).

5.0 GLOSSARY OF TERMS AND ABBREVIATIONS

BLM-CFO	Bureau of Land Management - Carlsbad Field Office
caprock-collapse sinkhole	Collapse of roof-spanning rock into a cave or void.
cave	Natural opening at the surface large enough for a person to enter.
cover-collapse sinkhole	Collapse of roof-spanning soil or clay ground cover into a subsurface void.
GPS	Global Positioning System
grike	A solutionally enlarged, vertical, or sub-vertical joint or fracture.
(H)	High confidence modifier for a PKF. This is typically reserved for a feature that is definitely karst but has not been confirmed in the field.
HKOZ	High Karst Occurrence Zone
InSAR	Interferometric Synthetic Aperture Radar. A method by which radar signals from satellites are processed to determine the amount and rate of subsidence of an area as well as whether the area is actively subsiding.
(L)	Low confidence modifier for a PKF. This is typically a feature that cannot be ruled out as karst but is most likely NOT karst related. This modifier may also be used for pseudokarst features.
LED	Locally enclosed depression. A natural depression on the surface that collects rainwater. Some contain swallets and/or caves, others do not.
LKOZ	Low Karst Occurrence Zone
(M)	Medium confidence modifier for PKF. This is an ambiguous feature that can't be positively identified as karst without a field visit (e.g., burrows, abandoned unlined wells, solution tubes, pseudokarst).
MKOZ	Medium Karst Occurrence Zone
NCRC	National Cave Rescue Commission
NKF	Non-karst feature. Used for features originally identified as PKF that have been subsequently identified in the field as non-karst related. This term may also be used for pseudokarst features.
NMSLO	New Mexico State Land Office
Pat	Permian Artesia Group
PdI	Permian Dewey Lake Formation
PKF	Possible karst feature. This term is reserved for features identified in satellite or aerial imagery that have NOT been visited in the field. Further modifiers include (H) for high confidence, (M) for medium confidence, and (L) for low confidence. These confidence levels are based on field experience.
PLSS	Public Land Survey System

Pqg	Permian Queen/Greyburg Formation
Pru	Permian Rustler Formation
pseudokarst	Karst-like features (sinkholes, conduits, voids etc.) that are not formed by dissolution. These types of features include soil piping, lava tubes, and some cover-collapse and suffosion sinkholes.
Psl	Permian Salado Formation
Psr	Permian Seven Rivers Formation
Pt	Permian Tansill Formation
Py	Permian Yates Formation
Qal	Quaternary alluvium
Qe	Quaternary eolian deposits
Qp	Quaternary piedmont deposits
Qpl	Quaternary playa lake deposits
RKF	Recognized karst feature. This term is reserved for karst features that have been physically verified in the field.
SKF	Surface Karst Feature
SPAR	Small Party Assisted Rescue
suffosion sinkhole	Raveling of soil into a pre-existing void or fracture.
swallet	A natural opening in the surface, too small for a person, that drains water to an aquifer. Some are "open," meaning a void can be seen below; some are "closed," meaning they are full of sediment.
SWG	Southwest Geophysical Consulting, LLC
UTM	Universal Transverse Mercator (projected coordinates)
(V)	Field verified modifier for a PKF. This indicates that the feature has been visited by a qualified karst professional in the field and fully identified
WGS	World Geodetic System (geographic coordinates)

6.0 ATTESTATION

David D. Decker, PhD, PG, CPG

Chief Executive Officer, Principal Geologist
Southwest Geophysical Consulting, LLC
5117 Fairfax Dr. NW
Albuquerque, NM 87114
dave@swgeophys.com
(505) 585-2550

CERTIFICATE OF AUTHOR

I, David D. Decker, a Licensed Professional Geologist and a Certified Professional Geologist, do certify that:

- I am currently employed as a consulting geologist in the specialty of caves and karst with an office address of 5117 Fairfax Dr. NW, Albuquerque, NM, USA, 87114.
- I graduated with a Master of Science in Applied Physics with a specialization in Sensor Systems from the Naval Post Graduate School in Monterey, California, in 2003, and a Doctor of Philosophy in Earth and Planetary Sciences from the University of New Mexico, Albuquerque, New Mexico, in 2018.
- I am a Licensed Professional Geologist in the State of Texas, USA (PG-15242) and have been since 2021. I am a Certified Professional Geologist through the American Institute of Professional Geologists (CPG-12123) and have been since 2021.
- I have been employed as a geologist continuously since 2016. I was previously employed as a Fire Controlman, Naval Flight Officer, and Aerospace Engineering Duty Officer in the U.S. Navy and operated, maintained, and installed various sensor systems including magnetic, electromagnetic, radar, communications, and acoustic systems in various capacities from 1986 through 2010.
- I have been involved in various aspects of cave and karst studies continuously since 1985, including exploration, mapping, and scientific studies.
- I have read the definition of “qualified karst professional” set out in the ASTM Standard (currently in review). I meet the definition of “qualified professional” for the purposes of ASTM E-1527.
- I am responsible for the content, compilation, and editing of all sections of report number ETEC-007-20240716 entitled, “Cave and Karst Resource Inventory Report, Dagger Draw Trunkline Release, Eddy County, New Mexico.” I or a duly authorized and qualified representative of Southwest Geophysical Consulting, LLC, have personally visited this site or reviewed the aerial imagery on the date or dates mentioned in section **2.3 Description of Survey**.

- I have no prior involvement nor monetary interest in the described property or project, save for my fee for conducting this investigation and providing the report.

Dated in Albuquerque, New Mexico, August 29, 2024.



David D. Decker
PhD, CPG-12123



Appendix G

Regulatory Correspondence

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, June 27, 2024 5:51:36 PM
To: Lance Crenshaw <lance@etechenv.com>
Subject: NAPP2409454303 DAGGER DRAW TRUNK LINE

Hi Lance,

I am just beginning to review the submitted remediation plan for the incident above. Figure 3 does not show FL1 through FL66 nor some of the sidewall sample locations. Am I missing a Figure in the attached report? If so, can you please email it to me?

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/>

Ben Arguijo

From: Ben Arguijo
Sent: Thursday, June 27, 2024 6:27 PM
To: Shelly.Wells@emnrd.nm.gov
Cc: Lance Crenshaw
Subject: RE: NAPP2409454303 DAGGER DRAW TRUNK LINE
Attachments: Figure 3A - Sample Location Map.pdf

Shelly,

That was by design, as the report is a variance request focused on the upper portion of the excavation where we are requesting a clay liner at 8' bgs. If you look at the next to last paragraph of Section 4.0, it says, "The extent of the excavated area encompassing the three (3) test trenches, confirmation floor samples FL 67 @ 8' through FL 92 @ 8', and confirmation wall samples NW 6, NEW 1, NEW 2, NEW 3, SWW 1, SWW 2, and SWW 3 is depicted in Figure 3, 'Sample Location Map'." The remainder of the report discusses the variance request and focuses on that section of the excavation.

I noticed as I was preparing the variance request that there was an area (i.e., FL 44) of the lower section of the excavation that was inadvertently missed during confirmation sampling, which is another reason a map of that section was not included in the report. There may still be a couple of wall samples that need to be collected as well, but I am not positive about that. As the last paragraph of Section 7.0 states, "Upon completion of remediation and reclamation activities, a *Remediation Summary & Soil Closure Request* will be prepared detailing field activities and laboratory analytical results from confirmation soil samples."

All that having been said, I have attached a map showing the lower portion of the excavation, but keep in mind that it is partially incomplete. Sample points FL 65 and FL 66 are not shown, which is the section that connects the upper and lower sections of the excavation. The wall samples in that area are not drawn fully out either. FL 44 is shown, but it has not been sampled, as stated above.

Thank you.

Respectfully,
Ben J. Arguijo

Ben J. Arguijo
Project Manager



6309 Indiana Ave., Ste. D
Lubbock, TX 79413
(432) 813-1592

From: Lance Crenshaw <lance@etechenv.com>
Sent: Thursday, June 27, 2024 5:55 PM
To: Ben Arguijo <bena@etechenv.com>
Subject: Fwd: NAPP2409454303 DAGGER DRAW TRUNK LINE

Can you help with this?

Get [Outlook for iOS](#)

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, June 27, 2024 5:51:36 PM
To: Lance Crenshaw <lance@etechenv.com>
Subject: NAPP2409454303 DAGGER DRAW TRUNK LINE

Hi Lance,

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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: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Friday, June 28, 2024 9:38 AM
To: Ben Arguijo
Cc: Lance Crenshaw
Subject: RE: [EXTERNAL] RE: NAPP2409454303 DAGGER DRAW TRUNK LINE

Hi Ben,

Thanks for providing this. I will let you know if I have any further questions.

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: Thursday, June 27, 2024 5:27 PM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Lance Crenshaw <lance@etechenv.com>
Subject: [EXTERNAL] RE: NAPP2409454303 DAGGER DRAW TRUNK LINE

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Shelly,

That was by design, as the report is a variance request focused on the upper portion of the excavation where we are requesting a clay liner at 8' bgs. If you look at the next to last paragraph of Section 4.0, it says, "The extent of the excavated area encompassing the three (3) test trenches, confirmation floor samples FL 67 @ 8' through FL 92 @ 8', and confirmation wall samples NW 6, NEW 1, NEW 2, NEW 3, SWW 1, SWW 2, and SWW 3 is depicted in Figure 3, 'Sample Location Map'." The remainder of the report discusses the variance request and focuses on that section of the excavation.

I noticed as I was preparing the variance request that there was an area (i.e., FL 44) of the lower section of the excavation that was inadvertently missed during confirmation sampling, which is another reason a map of that section was not included in the report. There may still be a couple of wall samples that need to be collected as well, but I am not positive about that. As the last paragraph of Section 7.0 states, "Upon completion of remediation and reclamation activities, a *Remediation Summary & Soil Closure Request* will be prepared detailing field activities and laboratory analytical results from confirmation soil samples."

All that having been said, I have attached a map showing the lower portion of the excavation, but keep in mind that it is partially incomplete. Sample points FL 65 and FL 66 are not shown, which is the section that connects the upper and lower sections of the excavation. The wall samples in that area are not drawn fully out either. FL 44 is shown, but it has not been sampled, as stated above.

Thank you.

Respectfully,
Ben J. Arguijo

Ben J. Arguijo
Project Manager



6309 Indiana Ave., Ste. D
Lubbock, TX 79413
(432) 813-1592

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Friday, June 28, 2024 3:41 PM
To: Ben Arguijo
Cc: Lance Crenshaw
Subject: RE: [EXTERNAL] RE: NAPP2409454303 DAGGER DRAW TRUNK LINE

Hi Ben,

I am trying to get my bearings regarding the topography and such of the release area. By lower excavation, do you mean it is down in the streambed and the upper portion is above this?

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: Friday, June 28, 2024 11:50 AM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Lance Crenshaw <lance@etechenv.com>
Subject: RE: [EXTERNAL] RE: NAPP2409454303 DAGGER DRAW TRUNK LINE

Shelly,

No problem. I will do my best to provide you with whatever else you may need.

Thanks.

Ben

Ben J. Arguijo
Project Manager



6309 Indiana Ave., Ste. D
Lubbock, TX 79413
(432) 813-1592

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Friday, June 28, 2024 4:23 PM
To: Ben Arguijo
Subject: RE: [EXTERNAL] RE: NAPP2409454303 DAGGER DRAW TRUNK LINE

Okay this helps a lot! Much appreciated...will help in my discussion with Mike Bratcher.

Thank you,

Shelly

From: Ben Arguijo <bena@etechenv.com>
Sent: Friday, June 28, 2024 3:18 PM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Lance Crenshaw <lance@etechenv.com>
Subject: RE: [EXTERNAL] RE: NAPP2409454303 DAGGER DRAW TRUNK LINE

Shelly,

The map included in the Variance Request is the upper portion of the excavation. The map I sent you yesterday is the lower portion in the streambed. The image below shows the two sections in relation to each other. There is no compass rose in the image, but it is oriented with North at the top.

Let me know if you need any additional information.

Thanks.

Ben



Ben J. Arguijo
Project Manager



6309 Indiana Ave., Ste. D
Lubbock, TX 79413
(432) 813-1592

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Friday, June 28, 2024 3:41 PM
To: Ben Arguijo <ben@etechenv.com>
Cc: Lance Crenshaw <lance@etechenv.com>
Subject: RE: [EXTERNAL] RE: NAPP2409454303 DAGGER DRAW TRUNK LINE

Hi Ben,

I am trying to get my bearings regarding the topography and such of the release area. By lower excavation, do you mean it is down in the streambed and the upper portion is above this?

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: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, July 2, 2024 9:18 AM
To: Connor Walker <cwalker@mewbourne.com>
Subject: [EXT] The Oil Conservation Division (OCD) has rejected the application, Application ID: 353748

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#) nAPP2409454303, for the following reasons:

- **Remediation proposal denied. At this time your variance request to install a clay liner at 8' is rejected. Excavation must be to the maximum extent practicable and agreeable to the OCD. If Mewbourne is concerned about karst collapse you will need to utilize means available to investigate the existence of karst features such as a standard penetration test or other means as appropriate. Submit report to the OCD by 9/30/2024.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 353748.

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 <OCDOnline@state.nm.us>
Sent: Friday, November 1, 2024 3:33 PM
To: Connor Walker <cwalker@mewbourne.com>
Subject: [EXT] The Oil Conservation Division (OCD) has approved the application, Application ID: 388581

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2409454303, with the following conditions:

- **Remediation plan approved with conditions: Excavation of TT1 and TT2 areas should be furthered to a depth of at least 12 feet, up to and including samples FL 73 and FL 74. Photographic documentation of proof of excavation depth should be submitted with closure report. Then excavation can be backfilled with non waste containing soil up to a depth of 8 feet and a two foot clay liner may then be installed on the floor of the Upper Excavation. Prior to commencement of any activities, provide OCD information as to where clay will be sourced from and provide compaction information of the sourced clay. Remediation closure report is due to the OCD by 1/30/2025.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

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: Ben Arguijo
Sent: Friday, November 15, 2024 2:14 PM
To: Wells, Shelly, EMNRD
Cc: Bratcher, Michael, EMNRD; Connor Walker; Jeff Broom; Lance Crenshaw
Subject: RE: [EXT] The Oil Conservation Division (OCD) has approved the application, Application ID: 388581

Shelly,

In light of difficulties encountered sourcing clay within a reasonable distance of the Dagger Draw Trunk Line remediation site, Etech, on behalf of Mewbourne Oil Services, respectfully requests permission to install a bentonite slurry seal on the floor of the Upper Excavation in lieu of the 2-foot compacted clay layer specified in the remediation plan.

A "bentonite slurry seal" is a mixture that combines bentonite clay (which is commonly used to plug and abandon water wells) with other materials—caliche backfill in this case—to form a cohesive, low permeability layer when mixed with water. Such seals are widely used in construction and environmental applications where protection of the underlying groundwater is a primary concern. Given the site's terrain and slope, Mewbourne and Etech believe a bentonite slurry seal will be a more efficient, cost-effective, and practical alternative to a compacted clay liner for the Dagger Draw location.

The caliche backfill and topsoil for the excavation will be sourced from the nearby Stockton Pit (32.67965,-104.149420). The bentonite will be obtained from a commercial supplier. Composite soil samples will be collected from the caliche and topsoil to be analyzed for concentrations of BTEX, TPH, and chloride prior to emplacement in the excavation and/or being used to create the bentonite slurry seal. The water for the slurry mixture will be obtained from a clean, potable water source and field-tested for chloride prior to use.

To ensure that the bentonite slurry forms an effective seal and prevents vertical migration of contamination remaining in-situ, Mewbourne will consult with a third-party laboratory to perform Proctor Compaction Testing on the backfill material sourced from the Stockton Pit and to determine the precise ratio of bentonite, caliche, and water required to create a seal with permeability and cohesivity characteristics equivalent to a 2-foot compacted clay liner.

Thank you for your time and consideration. If you have any questions or need any additional information, please do not hesitate to contact me, Lance Crenshaw, or Connor Walker.

Respectfully,
Ben J. Arguijo

Ben J. Arguijo
Project Manager



6309 Indiana Ave., Ste. D
Lubbock, TX 79413
(432) 813-1592

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Tuesday, December 3, 2024 12:37 PM
To: Ben Arguijo
Cc: Bratcher, Michael, EMNRD; Connor Walker; Jeff Broom; Lance Crenshaw
Subject: RE: [EXTERNAL] RE: [EXT] The Oil Conservation Division (OCD) has approved the application, Application ID: 388581

Hello Ben,

The bentonite slurry seal is not approved for use for NAPP2409454303 DAGGER DRAW TRUNK LINE. OCD requests that Mewbourne confer with the U.S. Army Corps of Engineers on the feasibility of a deeper excavation or implementation of a liner system at the current depth. Provide correspondence to the OCD.

Sincerely,

Shelly Wells

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: Friday, November 15, 2024 1:14 PM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; 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 approved the application, Application ID: 388581

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Shelly,

In light of difficulties encountered sourcing clay within a reasonable distance of the Dagger Draw Trunk Line remediation site, Etech, on behalf of Mewbourne Oil Services, respectfully requests permission to install a bentonite slurry seal on the floor of the Upper Excavation in lieu of the 2-foot compacted clay layer specified in the remediation plan.

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a bentonite slurry seal will be a more efficient, cost-effective, and practical alternative to a compacted clay liner for the Dagger Draw location.

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Thank you for your time and consideration. If you have any questions or need any additional information, please do not hesitate to contact me, Lance Crenshaw, or Connor Walker.

Respectfully,
Ben J. Arguijo

Ben J. Arguijo
Project Manager



6309 Indiana Ave., Ste. D
Lubbock, TX 79413
(432) 813-1592

From: Ben Arguijo
Sent: Tuesday, December 3, 2024 1:36 PM
To: Wells, Shelly, EMNRD
Cc: Bratcher, Michael, EMNRD; Connor Walker; Jeff Broom; Lance Crenshaw
Subject: RE: [EXTERNAL] RE: [EXT] The Oil Conservation Division (OCD) has approved the application, Application ID: 388581

Shelly,

Looking back over my 11/15/24 email, I believe I need to clarify that the following stipulation in your 11/1/24 email has already been met: "Excavation of TT1 and TT2 areas should be furthered to a depth of at least 12 feet, up to and including samples FL 73 and FL 74." The bentonite slurry layer would be in lieu of the clay liner mentioned here: "Then excavation can be backfilled with non waste containing soil up to a depth of 8 feet and a two foot clay liner may then be installed on the floor of the Upper Excavation." I realize now that I did not make that clear originally. I apologize for the oversight and any confusion caused.

On behalf of Mewbourne and Etech, I respectfully request a re-evaluation of the proposed bentonite slurry seal in light of the information above.

Thank you for your time and consideration.

Respectfully,
Ben J. Arguijo

Ben J. Arguijo
Project Manager



6309 Indiana Ave., Ste. D
Lubbock, TX 79413
(432) 813-1592

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Tuesday, December 3, 2024 12:37 PM
To: Ben Arguijo <bena@etechenv.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; 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 approved the application, Application ID: 388581

Hello Ben,

The bentonite slurry seal is not approved for use for NAPP2409454303 DAGGER DRAW TRUNK LINE. OCD requests that Mewbourne confer with the U.S. Army Corps of Engineers on the feasibility of a deeper excavation or implementation of a liner system at the current depth. Provide correspondence to the OCD.

Sincerely,

Shelly Wells

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: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, December 5, 2024 12:15 PM
To: Ben Arguijo
Cc: Bratcher, Michael, EMNRD; Connor Walker; Jeff Broom; Lance Crenshaw; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] RE: [EXT] The Oil Conservation Division (OCD) has approved the application, Application ID: 388581

Hi Ben,

Thank you for providing the update. As chloride contamination still remains in the areas of TT1 at least through 26', TT2 at least through 20' and TT3 at least through 12', the OCD would like for Mewbourne to confer with the U.S. Army Corps of Engineers on the feasibility of a deeper excavation or implementation of a liner system at the current depth. The bentonite slurry seal is not approved for use.

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: Tuesday, December 3, 2024 12:36 PM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; 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 approved the application, Application ID: 388581

Shelly,

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Thank you for your time and consideration.

Respectfully,
Ben J. Arguijo

Ben J. Arguijo
Project Manager



6309 Indiana Ave., Ste. D
Lubbock, TX 79413
(432) 813-1592

From: Lance Crenshaw
Sent: Monday, December 9, 2024 9:19 AM
To: Wells, Shelly, EMNRD; Ben Arguijo
Cc: Bratcher, Michael, EMNRD; Connor Walker; Jeff Broom; Bratcher, Michael, EMNRD; Joel Lowry
Subject: RE: [EXTERNAL] RE: [EXT] The Oil Conservation Division (OCD) has approved the application, Application ID: 388581

Good morning Shelly,

After searching through several pits and areas, we were able to source some clay from Gandy Marley disposal, located between Tatum and Roswell. We can do the proctor compaction test on this clay and send you the results, as you mentioned in the initial remediation plan approval with conditions. We just wanted to make sure this is a viable option that meets the OCD's requirements. I look forward to hearing from you. Thank you.

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2409454303, with the following conditions:

- **Remediation plan approved with conditions: Excavation of TT1 and TT2 areas should be furthered to a depth of at least 12 feet, up to and including samples FL 73 and FL 74. Photographic documentation of proof of excavation depth should be submitted with closure report. Then excavation can be backfilled with non waste containing soil up to a depth of 8 feet and a two foot clay liner may then be installed on the floor of the Upper Excavation. Prior to commencement of any activities, provide OCD information as to where clay will be sourced from and provide compaction information of the sourced clay. Remediation closure report is due to the OCD by 1/30/2025.**

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, December 5, 2024 11:15 AM
To: Ben Arguijo <bena@etechenv.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Connor Walker <cwalker@mewbourne.com>; Jeff Broom <jbroom@mewbourne.com>; Lance Crenshaw <lance@etechenv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: [EXT] The Oil Conservation Division (OCD) has approved the application, Application ID: 388581

Hi Ben,

Thank you for providing the update. As chloride contamination still remains in the areas of TT1 at least through 26', TT2 at least through 20' and TT3 at least through 12', the OCD would like for Mewbourne to confer with the U.S. Army Corps of Engineers on the feasibility of a deeper excavation or implementation of a liner system at the current depth. The bentonite slurry seal is not approved for use.

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: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Sent: Monday, December 9, 2024 10:16 AM
To: Lance Crenshaw; Wells, Shelly, EMNRD; Ben Arguijo
Cc: Connor Walker; Jeff Broom; Joel Lowry
Subject: RE: [EXTERNAL] RE: [EXT] The Oil Conservation Division (OCD) has approved the application, Application ID: 388581

Lance et al.,

Right now, OCD is rescinding the last approval until Mewbourne obtains input from the Army Corp. We would like their input on deeper excavations at the site as well as installation of any type of liner/liner system. If they are not willing to be involved, forward Shelly and me their statement and we can move forward from there.

Thanks,

Mike Bratcher

Incident Supervisor
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave | Artesia, NM 88210
(575) 626-0857 |

mike.bratcher@emnrd.nm.gov

<http://www.emnrd.nm.gov/ocd>

From: Lance Crenshaw <lance@etechenv.com>
Sent: Monday, December 9, 2024 8:19 AM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Ben Arguijo <bena@etechenv.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Connor Walker <cwalker@mewbourne.com>; Jeff Broom <jbroom@mewbourne.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Joel Lowry <joel@etechenv.com>
Subject: RE: [EXTERNAL] RE: [EXT] The Oil Conservation Division (OCD) has approved the application, Application ID: 388581

Good morning Shelly,

After searching through several pits and areas, we were able to source some clay from Gandy Marley disposal, located between Tatum and Roswell. We can do the proctor compaction test on this clay and send you the results, as you mentioned in the initial remediation plan approval with conditions. We just wanted to make sure this is a viable option that meets the OCD's requirements. I look forward to hearing from you. Thank you.

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2409454303, with the following conditions:

- **Remediation plan approved with conditions: Excavation of TT1 and TT2 areas should be furthered to a depth of at least 12 feet, up to and including samples FL 73 and FL 74. Photographic documentation of proof of excavation depth should be submitted with closure report. Then excavation can be backfilled with non waste containing soil up to a depth of 8 feet and a two foot clay liner may then be installed on the floor of the Upper Excavation. Prior to commencement of any activities, provide OCD information as to where clay will be sourced from and provide compaction information of the sourced clay. Remediation closure report is due to the OCD by 1/30/2025.**

From: Connor Walker <cwalker@mewbourne.com>
Sent: Friday, February 28, 2025 12:14 PM
To: Bratcher, Michael, EMNRD; Lance Crenshaw; Wells, Shelly, EMNRD; Ben Arguijo
Cc: Jeff Broom; Joel Lowry
Subject: RE: [EXTERNAL] RE: [EXT] The Oil Conservation Division (OCD) has approved the application, Application ID: 388581
Attachments: [EXT] Environmental Project Inquiry

Mike and Shelly,

Please see the attached response from Army Corp regarding the Dagger Draw SWD Line project. I tried to reach by phone several different numbers and contacts, and finally used their contact form found on their website requesting input. The response indicates that do not have the ability to respond to project-specific comments.

Please let me know what you guys think. We are more than happy to get clay out there and do our 2' layer and we have found a local group that can do a compaction test to ensure the impacts that were not removed are sealed off.

Thank you,

Connor Walker

Sr. Engineer

Phone: 806-202-5281

Email:

cwalker@mewbourne.com



From: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Sent: Monday, December 9, 2024 9:16 AM
To: Lance Crenshaw <lance@etechenv.com>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Ben Arguijo <bena@etechenv.com>
Cc: Connor Walker <cwalker@mewbourne.com>; Jeff Broom <jbroom@mewbourne.com>; Joel Lowry <joe@etechenv.com>
Subject: RE: [EXTERNAL] RE: [EXT] The Oil Conservation Division (OCD) has approved the application, Application ID: 388581

Lance et al.,

Right now, OCD is rescinding the last approval until Mewbourne obtains input from the Army Corp. We would like their input on deeper excavations at the site as well as installation of any type of liner/liner system. If they are not willing to be involved, forward Shelly and me their statement and we can move forward from there.

Thanks,

Mike Bratcher

Incident Supervisor
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave | Artesia, NM 88210
(575) 626-0857 |
mike.bratcher@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>

From: SPA-RD-NM <SPA-RD-NM@usace.army.mil>
Sent: Monday, January 13, 2025 7:58 AM
To: Connor Walker
Subject: [EXT] Environmental Project Inquiry

You don't often get email from spa-rd-nm@usace.army.mil. [Learn why this is important](#)

Thank you for requesting comments from our office regarding the proposed subject project(s) or activity (ies) that may have the potential to impact aquatic resources. We appreciate that you are considering our potential regulatory role in the project, but we do not currently have the ability to provide project-specific comments. If the activity should have the potential to result in the discharge of dredged or fill material into waters of the United States, then the project proponent should work directly with our office to acquire necessary Corps permits, if applicable, as described in the following general comment:

Section 404 of the Clean Water Act requires a permit from us for the discharge of dredged or fill material into waters of the United States. Waters of the United States may include, but are not limited to, rivers, streams, lakes, ponds, wetlands, wet meadows, seeps, and some irrigation ditches. To ascertain the extent of waters on the project site, the applicant should prepare a delineation of aquatic resources, in accordance with the applicable standards, including the 1987 Wetland Delineation Manual and appropriate regional supplements. These standards can be found on our website at:

<https://www.spa.usace.army.mil/Missions/Regulatory-Program-and-Permits/Jurisdiction/>.

An aquatic resource delineation should be evaluated prior to designing a project to ensure the project proponent avoids and minimizes impacts to waters of the United States to the greatest practicable extent. The range of alternatives considered for this project should include alternatives that avoid and minimize impacts to wetlands, streams, or other waters of the United States. Every effort should be made to avoid project features which require the discharge of dredged or fill material into waters of the United States. In the event it can be clearly demonstrated there are no practicable alternatives to discharging dredged or fill material into waters of the United States, compensatory mitigation may be required.

For more information about our program or to locate a list of consultants that prepare aquatic resource delineations and permit application documents, please visit our website at <https://www.spa.usace.army.mil/Missions/Regulatory-Program-and-Permits>.

U.S. Army Corps of Engineers

Albuquerque District - Regulatory Division
4101 Jefferson Plaza, NE
Albuquerque, New Mexico 87109-3435



<https://www.spa.usace.army.mil/Missions/Regulatory-Program-and-Permits/>

From: noreply@dma.mil <noreply@dma.mil>
Sent: Wednesday, January 8, 2025 4:32 PM
To: Cespa-pa SPA <Cespa-pa@usace.army.mil>
Subject: Albuquerque District Contact Form: Environmental Project - General Inquiry

CAUTION: Your email client may display clickable links. The data in this email is provided without modification, as the user entered it. Before you click or use any link provided in this email, please confirm the authenticity of the link. This message was sent from the Albuquerque District website.

Message From: Connor Walker

Email: cwalker@mewbourne.com

Phone:

Location (City, State, Zip):

Response requested: Yes

Message:

Good evening,

My name is Connor Walker, and I work for an oil and gas operator that is doing an environmental project. I am seeking input from ACE on the feasibility of portions of the project related to excavation.

My phone can be reached at 806-202-5281, anytime.

Thank you,
Connor Walker

Appendix H

Sampling Notification Receipts

From: OCDOnline@state.nm.us
To: [Connor Walker](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 329736
Date: Wednesday, April 3, 2024 4:12:34 PM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409454303.

The sampling event is expected to take place:

When: 04/08/2024 @ 08:00

Where: O-10-20S-25E 0 FNL 0 FEL (32.580784,-104.470355)

Additional Information: Sample Tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechnv.com

Additional Instructions: From the intersection of White Pine Rd and Co Rd 27 (32.565078, -104.483960), head NW on Co Rd 27 for 0.52 mi, then N for 0.59 mi, then E for 1.06 mi, then E across the pad for 0.03 mi, then S for 0.24 mi, then E for 0.18 mi, then S for 0.05 mi, then S off the pad and into the pasture for 0.01 mi to arrive at the Dagger Draw Trunk Line release (32.580475, -104.470077)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Connor Walker](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 329738
Date: Wednesday, April 3, 2024 4:29:16 PM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409454303.

The sampling event is expected to take place:

When: 04/09/2024 @ 08:00

Where: O-10-20S-25E 0 FNL 0 FEL (32.580784,-104.470355)

Additional Information: Sample Tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechnv.com

Additional Instructions: From the intersection of White Pine Rd and Co Rd 27 (32.565078, -104.483960), head NW on Co Rd 27 for 0.52 mi, then N for 0.59 mi, then E for 1.06 mi, then E across the pad for 0.03 mi, then S for 0.24 mi, then E for 0.18 mi, then S for 0.05 mi, then S off the pad and into the pasture for 0.01 mi to arrive at the Dagger Draw Trunk Line release (32.580475, -104.470077)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Connor Walker](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 329787
Date: Wednesday, April 3, 2024 4:42:50 PM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409454303.

The sampling event is expected to take place:

When: 04/10/2024 @ 08:00

Where: O-10-20S-25E 0 FNL 0 FEL (32.580784,-104.470355)

Additional Information: Sample Tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechenv.com

Additional Instructions: From the intersection of White Pine Rd and Co Rd 27 (32.565078, -104.483960), head NW on Co Rd 27 for 0.52 mi, then N for 0.59 mi, then E for 1.06 mi, then E across the pad for 0.03 mi, then S for 0.24 mi, then E for 0.18 mi, then S for 0.05 mi, then S off the pad and into the pasture for 0.01 mi to arrive at the Dagger Draw Trunk Line release (32.580475, -104.470077)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Connor Walker](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 329790
Date: Wednesday, April 3, 2024 4:45:59 PM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409454303.

The sampling event is expected to take place:

When: 04/11/2024 @ 08:00

Where: O-10-20S-25E 0 FNL 0 FEL (32.580784,-104.470355)

Additional Information: Aaron Rios

Phone: 432-701-8602, aaronr@etechnv.com

Additional Instructions: From the intersection of White Pine Rd and Co Rd 27 (32.565078, -104.483960), head NW on Co Rd 27 for 0.52 mi, then N for 0.59 mi, then E for 1.06 mi, then E across the pad for 0.03 mi, then S for 0.24 mi, then E for 0.18 mi, then S for 0.05 mi, then S off the pad and into the pasture for 0.01 mi to arrive at the Dagger Draw Trunk Line release (32.580475, -104.470077)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Connor Walker](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 329793
Date: Wednesday, April 3, 2024 4:47:29 PM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409454303.

The sampling event is expected to take place:

When: 04/12/2024 @ 08:00

Where: O-10-20S-25E 0 FNL 0 FEL (32.580784,-104.470355)

Additional Information: Aaron Rios

Phone: 432-701-8602, aaronr@etechnv.com

Additional Instructions: From the intersection of White Pine Rd and Co Rd 27 (32.565078, -104.483960), head NW on Co Rd 27 for 0.52 mi, then N for 0.59 mi, then E for 1.06 mi, then E across the pad for 0.03 mi, then S for 0.24 mi, then E for 0.18 mi, then S for 0.05 mi, then S off the pad and into the pasture for 0.01 mi to arrive at the Dagger Draw Trunk Line release (32.580475, -104.470077)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Connor Walker](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 332851
Date: Friday, April 12, 2024 9:57:06 AM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409454303.

The sampling event is expected to take place:

When: 04/16/2024 @ 08:00

Where: O-10-20S-25E 0 FNL 0 FEL (32.580784,-104.470355)

Additional Information: Sample Tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechenv.com

Additional Instructions: From the intersection of White Pine Rd and Co Rd 27 (32.565078, -104.483960), head NW on Co Rd 27 for 0.52 mi, then N for 0.59 mi, then E for 1.06 mi, then E across the pad for 0.03 mi, then S for 0.24 mi, then E for 0.18 mi, then S for 0.05 mi, then S off the pad and into the pasture for 0.01 mi to arrive at the Dagger Draw Trunk Line release (32.580475, -104.470077)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Connor Walker](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 332854
Date: Friday, April 12, 2024 9:58:20 AM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409454303.

The sampling event is expected to take place:

When: 04/17/2024 @ 08:00

Where: O-10-20S-25E 0 FNL 0 FEL (32.580784,-104.470355)

Additional Information: Sample Tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechnv.com

Additional Instructions: From the intersection of White Pine Rd and Co Rd 27 (32.565078, -104.483960), head NW on Co Rd 27 for 0.52 mi, then N for 0.59 mi, then E for 1.06 mi, then E across the pad for 0.03 mi, then S for 0.24 mi, then E for 0.18 mi, then S for 0.05 mi, then S off the pad and into the pasture for 0.01 mi to arrive at the Dagger Draw Trunk Line release (32.580475, -104.470077)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Connor Walker](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 332857
Date: Friday, April 12, 2024 9:59:32 AM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409454303.

The sampling event is expected to take place:

When: 04/18/2024 @ 08:00

Where: O-10-20S-25E 0 FNL 0 FEL (32.580784,-104.470355)

Additional Information: Sample Tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechemv.com

Additional Instructions: From the intersection of White Pine Rd and Co Rd 27 (32.565078, -104.483960), head NW on Co Rd 27 for 0.52 mi, then N for 0.59 mi, then E for 1.06 mi, then E across the pad for 0.03 mi, then S for 0.24 mi, then E for 0.18 mi, then S for 0.05 mi, then S off the pad and into the pasture for 0.01 mi to arrive at the Dagger Draw Trunk Line release (32.580475, -104.470077)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Connor Walker](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 332859
Date: Friday, April 12, 2024 10:01:00 AM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409454303.

The sampling event is expected to take place:

When: 04/19/2024 @ 08:00

Where: O-10-20S-25E 0 FNL 0 FEL (32.580784,-104.470355)

Additional Information: Sample Tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechnv.com

Additional Instructions: From the intersection of White Pine Rd and Co Rd 27 (32.565078, -104.483960), head NW on Co Rd 27 for 0.52 mi, then N for 0.59 mi, then E for 1.06 mi, then E across the pad for 0.03 mi, then S for 0.24 mi, then E for 0.18 mi, then S for 0.05 mi, then S off the pad and into the pasture for 0.01 mi to arrive at the Dagger Draw Trunk Line release (32.580475, -104.470077)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Connor Walker](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 335165
Date: Thursday, April 18, 2024 5:21:37 PM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409454303.

The sampling event is expected to take place:

When: 04/22/2024 @ 08:00

Where: O-10-20S-25E 0 FNL 0 FEL (32.580784,-104.470355)

Additional Information: Sample Tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechnv.com

Additional Instructions: From the intersection of White Pine Rd and Co Rd 27 (32.565078, -104.483960), head NW on Co Rd 27 for 0.52 mi, then N for 0.59 mi, then E for 1.06 mi, then E across the pad for 0.03 mi, then S for 0.24 mi, then E for 0.18 mi, then S for 0.05 mi, then S off the pad and into the pasture for 0.01 mi to arrive at the Dagger Draw Trunk Line release (32.580475, -104.470077)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Connor Walker](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 335167
Date: Thursday, April 18, 2024 5:22:48 PM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409454303.

The sampling event is expected to take place:

When: 04/23/2024 @ 08:00

Where: O-10-20S-25E 0 FNL 0 FEL (32.580784,-104.470355)

Additional Information: Sample Tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechnv.com

Additional Instructions: From the intersection of White Pine Rd and Co Rd 27 (32.565078, -104.483960), head NW on Co Rd 27 for 0.52 mi, then N for 0.59 mi, then E for 1.06 mi, then E across the pad for 0.03 mi, then S for 0.24 mi, then E for 0.18 mi, then S for 0.05 mi, then S off the pad and into the pasture for 0.01 mi to arrive at the Dagger Draw Trunk Line release (32.580475, -104.470077)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Connor Walker](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 335168
Date: Thursday, April 18, 2024 5:23:50 PM

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2409454303.

The sampling event is expected to take place:

When: 04/24/2024 @ 08:00

Where: O-10-20S-25E 0 FNL 0 FEL (32.580784,-104.470355)

Additional Information: Sample Tech: Aaron Rios

Phone: 432-701-8602, aaronr@etechenv.com

Additional Instructions: From the intersection of White Pine Rd and Co Rd 27 (32.565078, -104.483960), head NW on Co Rd 27 for 0.52 mi, then N for 0.59 mi, then E for 1.06 mi, then E across the pad for 0.03 mi, then S for 0.24 mi, then E for 0.18 mi, then S for 0.05 mi, then S off the pad and into the pasture for 0.01 mi to arrive at the Dagger Draw Trunk Line release (32.580475, -104.470077)

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
Sent: Monday, July 14, 2025 3:06 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 484653

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#) nAPP2409454303.

The sampling event is expected to take place:

When: 06/20/2025 @ 07:00

Where: O-10-20S-25E 0 FNL 0 FEL (32.580784,-104.470355)

Additional Information: Martin Sepulvedo, 432-305-7322

Additional Instructions: From the intersection of White Pine Rd and Co Rd 27 (32.565078, -104.483960), head NW on Co Rd 27 for 0.52 mi, then N for 0.59 mi, then E for 1.06 mi, then E across the pad for 0.03 mi, then S for 0.24 mi, then E for 0.18 mi, then S for 0.05 mi, then S off the pad and into the pasture for 0.01 mi to arrive at the Dagger Draw Trunk Line release (32.580475, -104.470077)

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 confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.**

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 I

Clay Compaction Test Reports



LABORATORY TEST REPORT

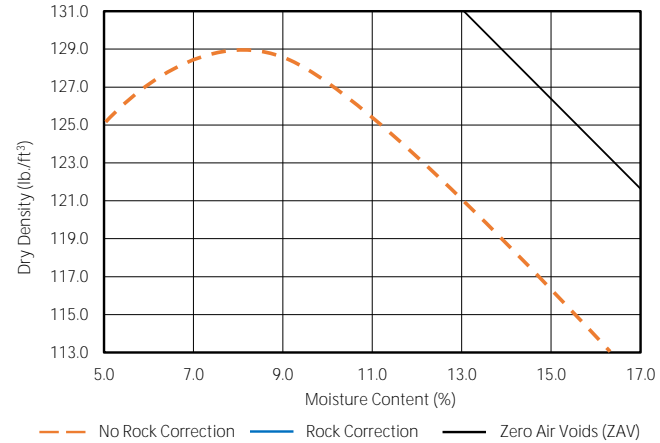


To: Etech Environmental
13000 W. County Rd 100
Odessa, TX 79765

Project: Mewbourne Oil Company - Dagger Draw
Trunk Line
Project Number: 2024.1251

Date of Test: December 13, 2024**Sample Date:** December 11, 2024**Location:** Sampled by Client**Field Description:** #24-279**Proctor Compaction Test:** Modified

ASTM D 1557 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³ (2,700 kN-m/m³))

Test Type & Method: ASTM D 1557 Method C**Preparation Method:** Dry **Drop Height (in):** 18**Ramrer Type:** Mechanical **Mold Diameter (in):** 6**Ramrer Face:** Circular **No. of Layers:** 5**Ramrer Weight (lb.):** 10 lb **Blows per Layer:** 56**Moisture-Density Relationship:****Rock Correction:** No**Optimum Moisture Content (%):** 8.3**Maximum Dry Density (lb./ft³):** 129.0**Specific Gravity (Assumed):** 2.710

Copies To: Connor Walker
Jeff Broom

PETTIGREW & ASSOCIATES, P.A.

BY:

NM PE No. 29041



LABORATORY TEST REPORT



To:

Etech Environmental
13000 W. County Rd 100
Odessa, TX 79765

Material:

Test Method:

ASTM: D 6938

Test Mode:

Direct Transmission

Depth:

See Below

Date of Test:

April 3, 2025

Depth of Probe:

6"

Project:

Mewbourne Oil Company - Dagger Draw
Trunk Line
Project No. 2024.1251

Test No.	Location	Bulk Density PCF	Moisture PCF	Dry Density PCF	Dry Density % Max	% Moisture	Depth
DT 1	Dagger Draw Trunk Line 10' S. x 25' W. From N.E. Corner	136.7	12.8	123.9	96.0	10.3	1' Below FG

Densometer SN:

2505

Make / Model:

Humboldt / 5001B

Calibration Date:

01/29/2025

Standard Counts:

STD/STAT 2364.6/437.6

Proctor No.:

24-279

Moisture Limits:

±2%

Required Compaction:

95%

MD:

129.0 / 8.3

ASTM: D 1557
Method C

Employee ID:

02111

Lab No.:


25-310

Comments:

Copies To:

Connor Walker
Jeff Broom

PETTIGREW & ASSOCIATES, P.A.

BY:  P.E.
NM PE No. 29041



LABORATORY TEST REPORT



To:

Etech Environmental
13000 W. County Rd 100
Odessa, TX 79765

Material:

Test Method:

ASTM: D 6938

Test Mode:

Direct Transmission

Depth:

See Below

Date of Test:

April 15, 2025

Depth of Probe:

6"

Test No.	Location	Bulk Density PCF	Moisture PCF	Dry Density PCF	Dry Density % Max	% Moisture	Depth
DT 2	20' S. x 20' E. From N.W. Corner	141.8	10.9	130.9	101.5	8.3	FG

Densometer SN:

9528

Make / Model:

Humboldt / 5001EZ

Calibration Date:

01/29/2025

Standard Counts:

STD/STAT 3023.6/329.9

Proctor No.:

24-279

Moisture Limits:

±2%

Required Compaction:

95%

MD:

129.0 / 8.3

ASTM: D 1557
Method C

Employee ID:

02124

Lab No.:

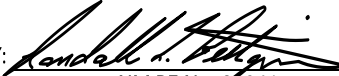
25-364

Comments:

Copies To:

Connor Walker
Jeff Broom

PETTIGREW & ASSOCIATES, P.A.

BY:  P.E.
NM PE No. 29041

Appendix J

Revegetation Form



2617 W. Marland
Hobbs, NM 88240
Office: (575) 964-2880

REVEGETATION FORM

1. General Information

Site name: Dagger Draw Trunk Line			API #: N/A		NMOCD Incident ID#: nAPP2409454303	
U/L O	Section 10	Township 20	Range 25	County Eddy	Latitude 32.5807840	Longitude -104.4703550
Responsible Party: Mewbourne Oil Company						
Contact Name: Connor Walker						
Email: cwalker@mewbourne.com						
Site size: ~0.59 acres			Square feet: ~25,540			

2. Soils

Salvaged from site	<input type="checkbox"/>	Bioremediated	<input type="checkbox"/>	Imported	<input checked="" type="checkbox"/>	Blended	<input type="checkbox"/>	Depth (in)	<input type="checkbox"/>
Texture:	Loam over clay loam		Describe soil & subsoil:		Reeves-Gypsum land complex, 0 to 3% slopes. Depth to restrictive layer: ""more than 80 inches", per the USDA's Web Soil Survey.				
Soil prep methods:	Rip	<input checked="" type="checkbox"/>	Depth (in)	<input type="checkbox"/>	Disc	<input type="checkbox"/>	Depth (in)	<input type="checkbox"/>	Rollerpack
Date completed:	6/2/2025								

3. Bioremediation

Fertilizer	<input type="checkbox"/>	Hay	<input type="checkbox"/>	Other	<input type="checkbox"/>
Type:				Describe:	
Lbs/acre:					

4. Seeding

Custom Seed Mix	<input type="checkbox"/>	Prescribed Mix	<input checked="" type="checkbox"/>	Seed Mix Name:	NMSLO Loamy Site	Date:	6/2/2025
Broadcast	<input checked="" type="checkbox"/>	Drilled	<input type="checkbox"/>	Method:	Broadcast seeder and harrow		
Soil conditions during seed:	Dry	<input checked="" type="checkbox"/>	Damp	<input type="checkbox"/>	Wet	<input type="checkbox"/>	
Observations:	Seed was broadcast using a seeder, followed by harrowing to incorporate seed and improve contact with soil.						

5. Certification

I hereby certify that the information in this form and attachments is true and complete to the best of my knowledge and belief.

Name: Ben J. Arguijo	Title: Project Manager	Date: 7/23/2025
Signature:		

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

QUESTIONS

Action 493874

QUESTIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 493874
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409454303
Incident Name	NAPP2409454303 DAGGER DRAW TRUNK LINE @ 30-015-42436
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-42436] QUICK DRAW 10 Y1OB FEE #002H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	DAGGER DRAW TRUNK LINE
Date Release Discovered	03/22/2024
Surface Owner	Private

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: Equipment Failure Pipeline (Any) Produced Water Released: 113 BBL Recovered: 85 BBL Lost: 28 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 2

Action 493874

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 493874
	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	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 04/03/2024
----------------------------------------------------	---------------------------------------------------------------------------------------------------

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 3

Action 493874

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 493874
	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 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
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 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (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	Zero feet, overlying, or within area
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)	25200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	180
GRO+DRO (EPA SW-846 Method 8015M)	154
BTEX (EPA SW-846 Method 8021B or 8260B)	8.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	03/27/2024
On what date will (or did) the final sampling or liner inspection occur	07/31/2024
On what date will (or was) the remediation complete(d)	07/31/2024
What is the estimated surface area (in square feet) that will be reclaimed	25540
What is the estimated volume (in cubic yards) that will be reclaimed	3784
What is the estimated surface area (in square feet) that will be remediated	25540
What is the estimated volume (in cubic yards) that will be remediated	4940

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 493874

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 493874
	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	No
OR is the off-site disposal site, to be used, an NMED facility	No
(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: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 08/11/2025
<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>	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 5

Action 493874

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 493874
	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

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 6

Action 493874

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:
	14744
	Action Number:
	493874
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	484653
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/20/2025
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	200

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	25540
What was the total volume (cubic yards) remediated	6280
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	25540
What was the total volume (in cubic yards) reclaimed	3784
Summarize any additional remediation activities not included by answers (above)	Please see attached closure report for complete remediation activities.

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 08/11/2025
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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 7

Action 493874

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 493874
	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 493874

CONDITIONS

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	Action Number: 493874
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	9/9/2025