

Incident ID	nAPP2231362043
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>30</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

<p>Characterization Report Checklist: <i>Each of the following items must be included in the report.</i></p> <ul style="list-style-type: none"><input checked="" type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.<input checked="" type="checkbox"/> Field data<input checked="" type="checkbox"/> Data table of soil contaminant concentration data<input checked="" type="checkbox"/> Depth to water determination<input checked="" type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release<input checked="" type="checkbox"/> Boring or excavation logs<input checked="" type="checkbox"/> Photographs including date and GIS information<input checked="" type="checkbox"/> Topographic/Aerial maps<input checked="" type="checkbox"/> Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Connor Walker Title: Sr. Engineer

Signature: _____ Date: _____

email: cwalker@mewbourne.com Telephone: (806)202-5281

OCD Only

Received by: _____ Date: _____

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Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Connor Walker Title: Sr. Engineer
Signature: _____ Date: _____
email: cwalker@mewbourne.com Telephone: (806)202-5281

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved


Signature: _____ Date: _____


Amended Remediation Summary & Deferral Request

Mewbourne Oil Company
Kansas 28/33 W0AP Fed Com #1H Battery Transfer Pump
Eddy County, New Mexico
Unit Letter "H", Section 21, Township 24 South, Range 28 East
Latitude 32.2035980 North, Longitude 104.085857 West
NMOCD Reference No. nAPP2231362043

Prepared By:

Etech Environmental & Safety Solutions, Inc.
6309 Indiana Ave, Ste. D
Lubbock, Texas 79413


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, has prepared this *Amended Remediation Summary & Deferral Request* for the release site known as the Kansas 28/33 W0AP Fed Com #1H Battery Transfer Pump (henceforth, "Kansas 28/33"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.2035980 Longitude: -104.085857

Provided GPS are in WGS84 format.

Site Name: <u>Kansas 28/33 W0AP Fed Com #1H Battery Transfer Pump</u>	Site Type: <u>Tank Battery</u>
Date Release Discovered: <u>10/26/2022</u>	API # (if applicable): <u>N/A</u>

Unit Letter	Section	Township	Range	County
"H"	21	24S	28E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name Pecos Valley Artesian Conservancy District)

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>780</u>	Volume Recovered (bbls) <u>775</u>
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:

A drain plug on the discharge of a water transfer pump failed. The pump was inside the secondary containment, which held 770 bbls of the release, all of which was recovered. The remaining 10 bbls was sprayed over containment, five (5) bbls of which were recovered.

Initial Response

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

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

2.0 SITE CHARACTERIZATION

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 Kansas 28/33 release site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	30'	
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Kansas 28/33 release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
30'	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)

† 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 INITIAL SITE ASSESSMENT

On January 12, 2023, Etech conducted an initial site assessment. During the site assessment, a series of hand-augered soil bores (SP1 through SP5) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. In addition, a series of hand-augered soil bores (NH1, EH1, EH2, SH1, WH1, and WH2) were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of impacted soil. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for concentrations of chloride utilizing a Hach Quantab ® chloride test kit and/or the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses.

Based on field observations and field test data, the horizontal and vertical extent of impacted soil was adequately defined and ranged from approximately two (2) feet below ground surface (bgs) in the areas characterized by sample points SP1 and SP4 to four (4) feet bgs in the areas characterized by sample points SP3 and SP5.

The locations of the hand-augered soil bores are depicted in Figure 3A, "Site & Sample Location Map - Delineation".

5.0 REMEDIATION ACTIVITIES SUMMARY

On January 16, 2023, remediation activities commenced at the release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floor of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis.

On January 19, 2023, Etech collected 17 confirmation soil samples (NW 1, NW 2, SW 2, SW 3, SW 4, WW 2, WW 3, and FS 35 @ 2' through FS 44 @ 2') from the sidewalls and floor of the excavated area. The soil samples were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory method detection limit (MDL). Chloride concentrations ranged from 48.0 mg/kg in soil sample SW 2 to 448 mg/kg in soil sample WW 2.

On January 20, 2023, Etech advanced a series of nine (9) hand-augered soil bores (DFS1 through DFS9) to further characterize the affected area adjacent to and/or beneath the on-site containment area, storage tanks, heater treaters, separators, and associated piping, appurtenances, and electrical facilities requiring deferral of remediation (henceforth, "Deferral Area"). During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for concentrations of chloride utilizing a chloride test kit and/or the presence of VOCs utilizing olfactory/visual senses. The soil bores were advanced in one (1) foot increments until field observations and field tests suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

Based on field observations and field test data, a total of 26 deferral characterization soil samples (DFS 1 @ Surface, DFS 1 @ 1', DFS 2 @ Surface, DFS 2 @ 1', DFS 2 @ 2', DFS 3 @ Surface, DFS 3 @ 1', DFS 3 @ 2', DFS 4 @ Surface, DFS 4 @ 1', DFS 5 @ Surface, DFS 5 @ 1', DFS 6 @ Surface, DFS 6 @ 1', DFS 6 @ 2', DFS 6 @ 3', DFS 7 @ Surface, DFS 7 @ 1', DFS 7 @ 2', DFS 7 @ 3', DFS 8 @ Surface, DFS 8 @ 1', DFS 8 @ 2', DFS 8 @ 3', DFS 9 @ Surface, and DFS 9 @ 1') 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 did not extend beyond one (1) foot bgs in the areas characterized by sample points DFS2, DFS3, DFS6, and DFS 8. Soil was not affected beyond ground surface in the areas characterized by sample points DFS1, DFS4, DFS5, and DFS7. The horizontal extent of impacted soil was adequately defined in the area characterized by sample point DFS9.

On January 23, 2023, Etech collected 36 confirmation soil samples (SW 1, WW 1, and FS 1 @ 3' through FS 34 @ 2') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were less than the applicable laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in soil samples FS 19 @ 2', FS 23 @ 2 1/2', and FS 24 @ 3' to 432 mg/kg in soil samples FS 4 @ 2' and FS 22 @ 3'.

Based on laboratory analytical results, the excavated area was backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions and compacted/contoured to fit the surrounding topography and/or the needs of the facility.

On June 15, 2023, based on laboratory analytical results and field activities conducted to that point, a *Remediation Summary & Deferral Request* was submitted to the NMOCD summarizing remediation activities conducted at the site and requesting deferral of remediation in the Deferral Area. The deferral request was subsequently denied by the NMOCD on November 3, 2023, on the basis that the horizontal extent of the release in the Deferral Area was not fully delineated by sample point DFS 9.

On November 7, 2023, Etech, on behalf of Mewbourne, notified the NMOCD via email that confirmation sampling would be conducted at the site beginning on November 10, 2023.

On November 10, 2023, in accordance with the NMOCD, Etech advanced a series of six (6) hand-augered soil bores (NH1 and EH1 through EH5) along the inferred margins of the release in an effort to confirm that the horizontal extent of impacted soil in the Deferral Area had been adequately delineated. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for concentrations of chloride utilizing a chloride test kit and/or the presence of VOCs utilizing olfactory/visual senses.

Based on field observations and field test data, a total of 12 delineation soil samples (NH1 @ Sur, NH1 @ 1 Ft, EH1 @ Sur, EH1 @ 1 Ft, EH2 @ Sur, EH2 @ 1 Ft, EH3 @ Sur, EH3 @ 1 Ft, EH4 @ Sur, EH4 @ 1 Ft, EH5 @ Sur, and EH5 @ 1 Ft) were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in soil samples EH1 @ Sur, EH4 @ Sur, and EH4 @ 1 Ft to 96.0 mg/kg in soil sample EH2 @ 1 Ft. Based on these laboratory analytical results, the horizontal extent of impacted soil in the Deferral Area was adequately defined.

The final dimensions of the excavated area were approximately 212 to 315 feet in length, 16 to 132 feet in width, and 2 to 3.5 feet in depth. During the course of remediation activities, Etech transported approximately 920 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 1,060 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

The locations of the hand-augered soil bores and confirmation soil samples, as well as the extents of the excavated area and the Deferral Area, are depicted in Figure 3B, "Site & Sample Location Map - Excavation". Soil chemistry data is summarized in Table 1. Field data and a soil profile log are provided in Appendix B. General photographs of the site are provided in Appendix C. Laboratory analytical reports are provided in Appendix E. Copies of all regulatory correspondence are provided in Appendix F.

6.0 IN-SITU CHLORIDE MIGRATION MODELING

Etech utilized the Environmental Protection Agency's (EPA) Multimedia Exposure Assessment Model (MULTIMED) to determine if the contamination remaining in-situ in the Deferral Area poses a threat to groundwater quality. The most appropriate and conservative parameter values possible for the site were used for the assessment model in regard to depth to

groundwater (30 feet bgs), deepest depth investigated, etc. Additional parameter values were utilized that have been previously approved by the NMOCD as being representative of the general area and for simulating unlined excavations and/or oil and gas facilities.

The MULTIMED model indicates that the concentration of chloride contributed to the underlying groundwater will not exceed the standard of 250 mg/L until approximately 145 years have lapsed (see Appendix D). Pursuant to Section 19.15.29.12.C(2) NMAC, the model effectively demonstrates that leaving the contamination in-situ in the Deferral Area (characterized by sample points DFS1 through DFS8) "does not cause an imminent risk to human health, the environment, or ground water".

7.0 DEFERRAL REQUEST

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated to the extent practicable and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate in-situ concentrations of BTEX are below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. Remediation of impacted soil affected above the NMOCD Closure Criteria remaining in-situ in the Deferral Area will be completed upon decommissioning and abandonment of the SWD facility, in accordance with Sections 19.15.29.12 and 19.15.29.13 NMAC.

8.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

The release was limited to the production pad and containment areas of an active tank battery. Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected areas were compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Final reclamation and re-vegetation of the Deferral Area will be conducted upon decommissioning and abandonment of the facility.

9.0 LIMITATIONS

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

10.0 DISTRIBUTION

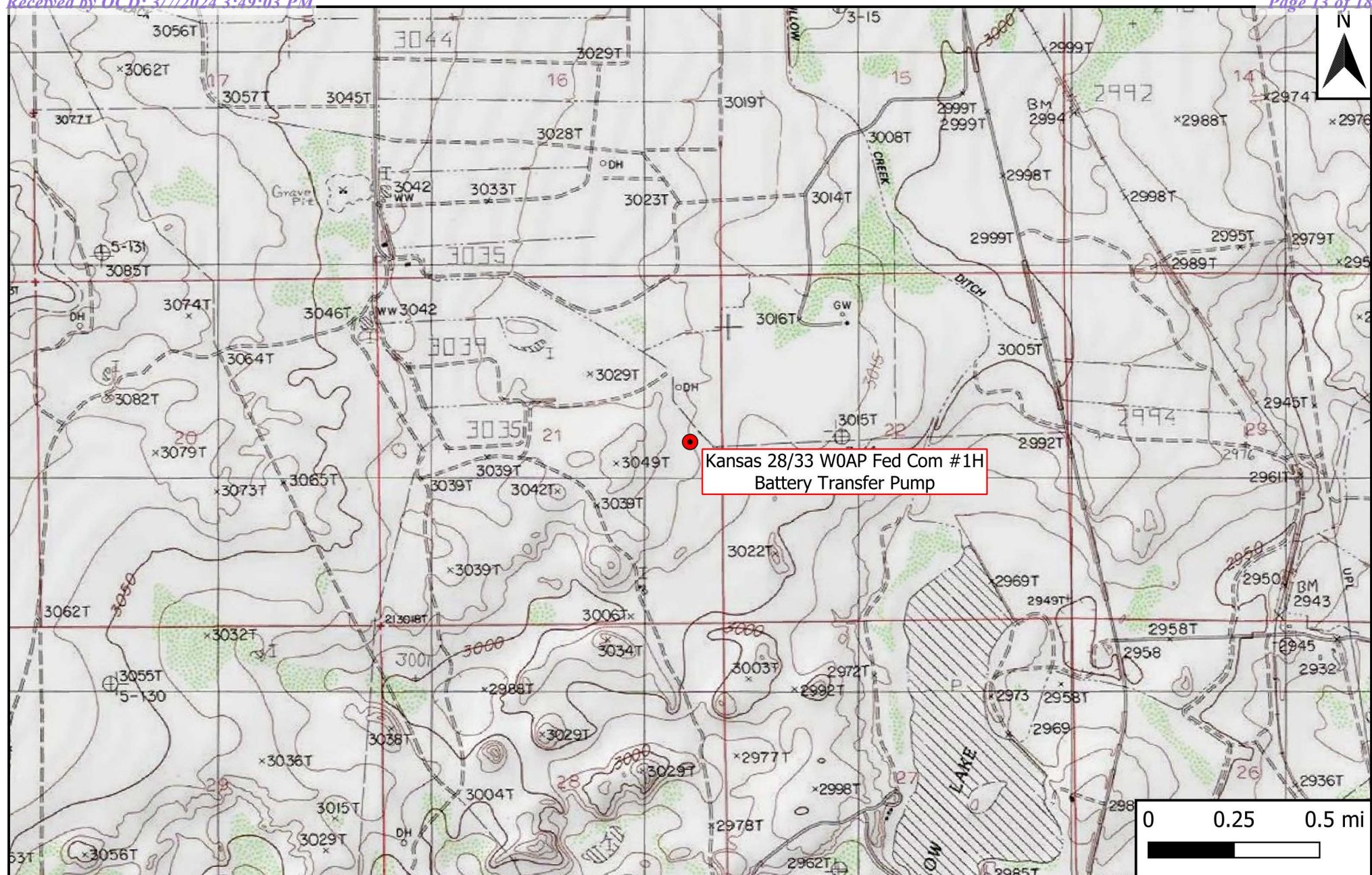
Mewbourne Oil Company
4801 Business Park Blvd.
Hobbs, NM 88240

New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 2
811 S. First Street
Artesia, NM 88210

(Electronic Submission)

Figure 1

Topographic Map



Legend

- Site Location

Figure 1

Topographic Map
 Mewbourne Oil Company
 Kansas 28/33 W0AP Fed Com #1H Battery Transfer Pump
 GPS: 32.203598, -104.085857
 Eddy County



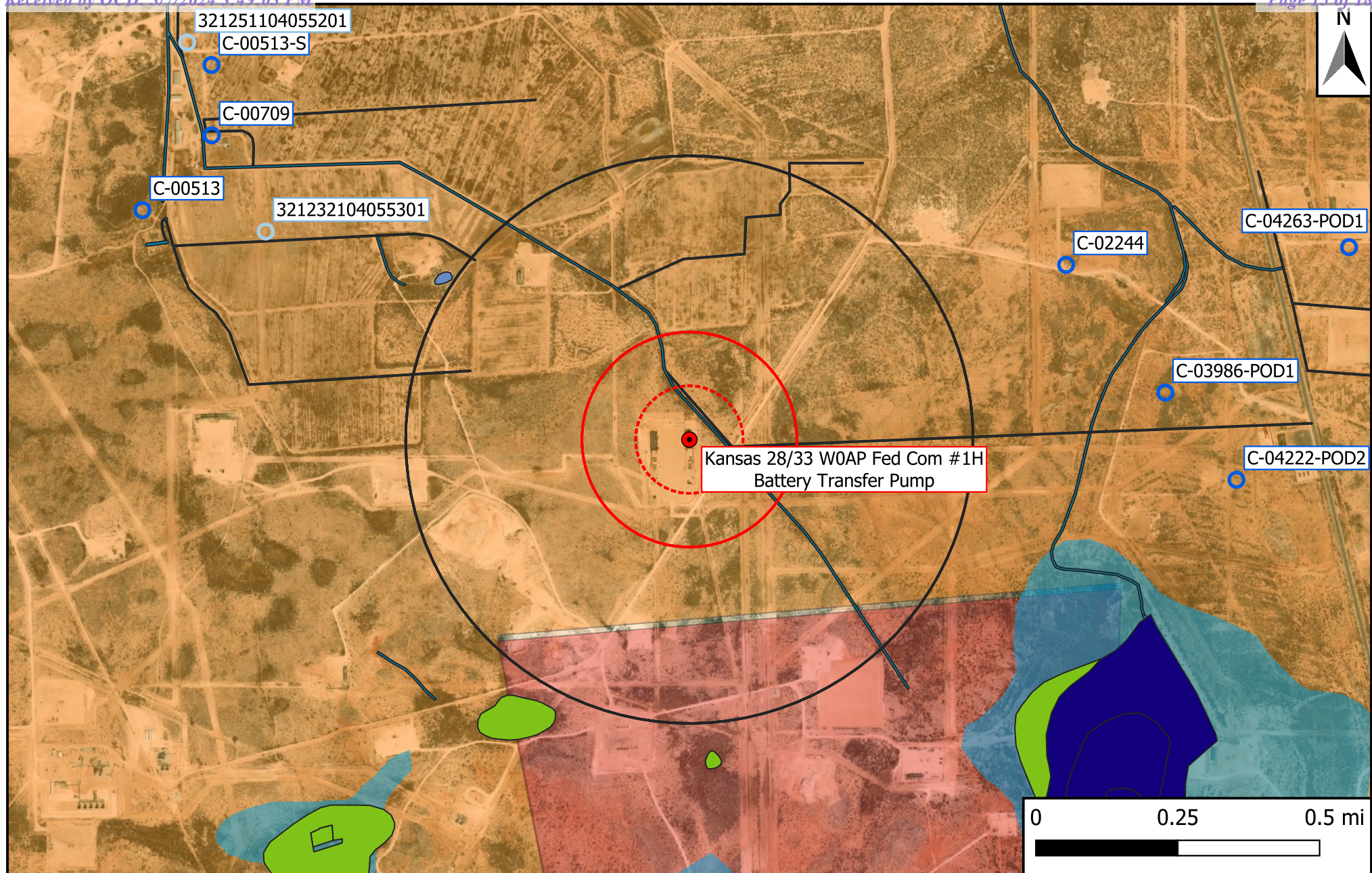
Drafted: bja

Checked: lc

Date: 3/12/23

Figure 2

Site Characterization Map



Legend

- | | | |
|------------------------------|---------------------------------|----------------------|
| ● Site Location | 1% Annual Flood Chance | ⋯ 500-Ft Radius |
| ○ Well - NMOSE | Emergent/Forested Wetlands | ▭ 1,000-Ft Radius |
| ○ Well - USGS | Freshwater Pond/Lake | ▭ 0.5-Mi Radius |
| ○ Well - Exploratory/Monitor | Karst Potential (Low/Med./High) | ▭ Municipal Boundary |
| — Potash Mine Workings | Riverine | |

Figure 2
 Site Characterization Map
 Mewbourne Oil Company
 Kansas 28/33 W0AP Fed Com #1H
 Battery Transfer Pump
 GPS: 32.203598, -104.085857
 Eddy County



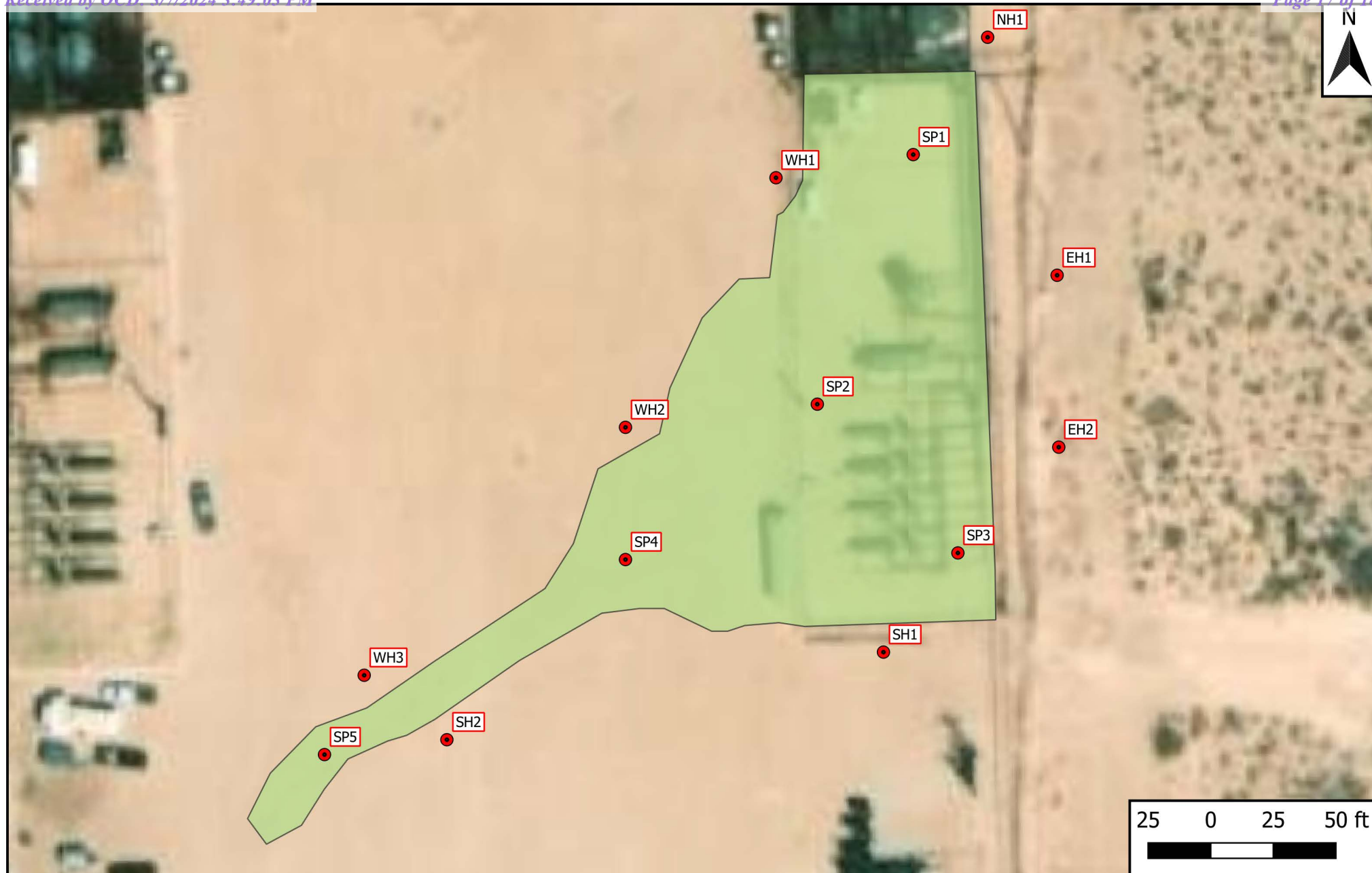
Drafted: bja

Checked: lc

Date: 3/12/23

Figures 3A & 3B

Site & Sample Location Maps



Legend

- Affected Area
- Delineation Sample Location

Figure 3A

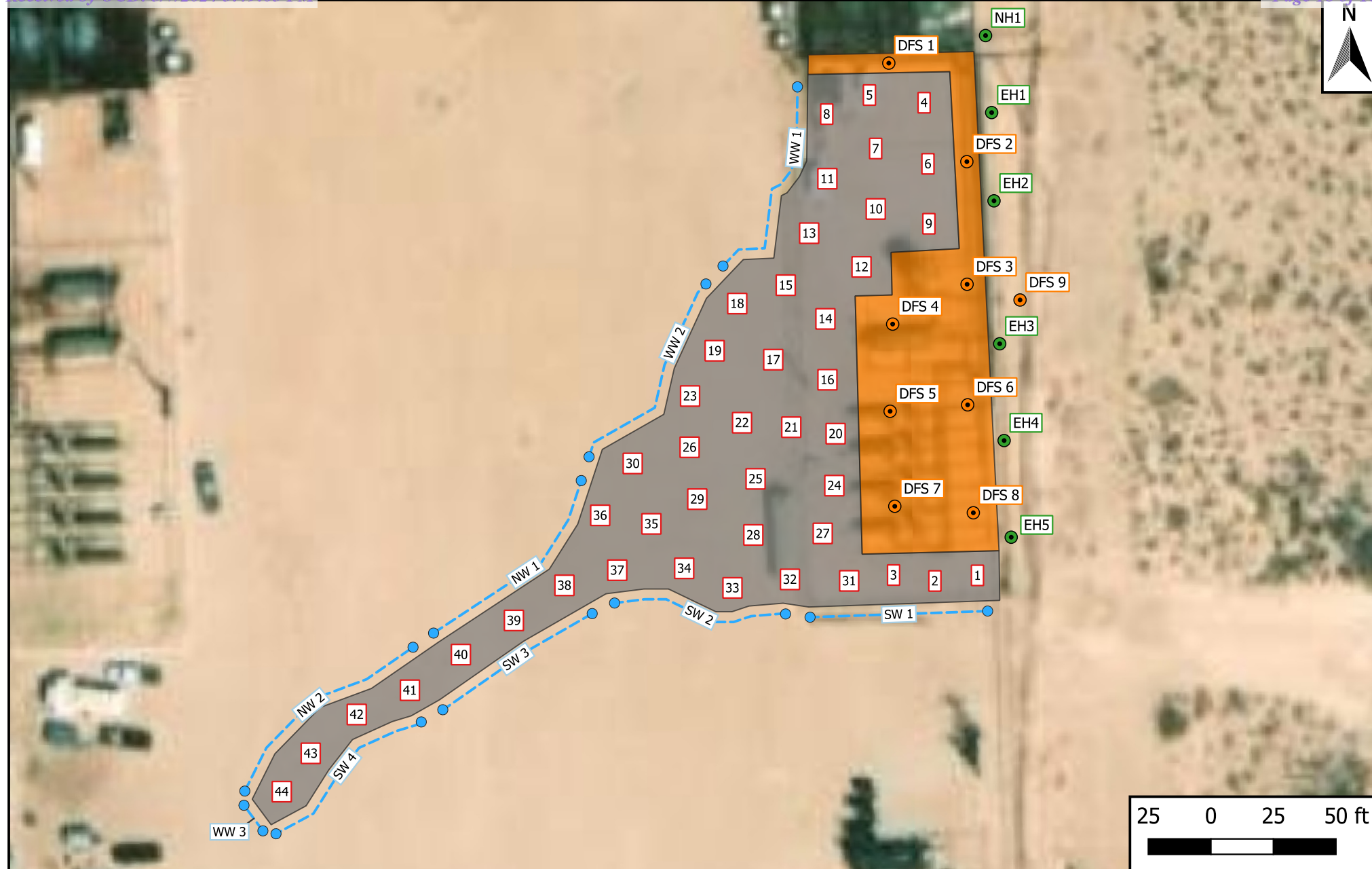
Site & Sample Location Map - Delineation
Mewbourne Oil Company
Kansas 28/33 W0AP Fed Com #1H Battery Transfer Pump
GPS: 32.203598, -104.085857
Eddy County



Drafted: bja

Checked: lc

Date: 5/17/23



Legend

- Excavation Extent
- Area to be Deferred
- Composite Floor Sample
- Composite Wall Sample
- Deferral Characterization Sample Location
- Delineation Sample Location

Figure 3B

Site & Sample Location Map - Excavation
 Mewbourne Oil Company
 Kansas 28/33 W0AP Fed Com #1H Battery Transfer Pump
 GPS: 32.203598, -104.085857
 Eddy County



Drafted: bja

Checked: lc

Date: 11/18/23

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Kansas 28/33 W0AP Fed Com #1H Battery Transfer Pump NMOCD Ref. #: nAPP2231362043											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chlorid (mg/kg)
Delineation & Deferral Characterization Samples											
DFS 1 @ Surface	1/20/2023	0	Deferral	<0.050	<0.300	<10.0	1,820	1,820	966	2,790	17,000
DFS 1 @ 1'	1/20/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
DFS 2 @ Surface	1/20/2023	0	Deferral	<0.050	<0.300	<10.0	17.3	17.3	<10.0	17.3	42,000
DFS 2 @ 1'	1/20/2023	1	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,280
DFS 2 @ 2'	1/20/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
DFS 3 @ Surface	1/20/2023	0	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	21,400
DFS 3 @ 1'	1/20/2023	1	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	832
DFS 3 @ 2'	1/20/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
DFS 4 @ Surface	1/20/2023	0	Deferral	<0.050	<0.300	<10.0	2,390	2,390	897	3,290	1,300
DFS 4 @ 1'	1/20/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
DFS 5 @ Surface	1/20/2023	0	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,420
DFS 5 @ 1'	1/20/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
DFS 6 @ Surface	1/20/2023	0	Deferral	<0.050	<0.300	<10.0	589	589	196	785	25,200
DFS 6 @ 1'	1/20/2023	1	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,400
DFS 6 @ 2'	1/20/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
DFS 6 @ 3'	1/20/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
DFS 7 @ Surface	1/20/2023	0	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,920
DFS 7 @ 1'	1/20/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
DFS 7 @ 2'	1/20/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
DFS 7 @ 3'	1/20/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
DFS 8 @ Surface	1/20/2023	0	Deferral	<0.050	<0.300	<10.0	2,470	2,470	514	2,980	26,000
DFS 8 @ 1'	1/20/2023	1	Deferral	<0.050	<0.300	<10.0	13.6	13.6	10.7	24.3	3,600
DFS 8 @ 2'	1/20/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
DFS 8 @ 3'	1/20/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
DFS 9 @ Surface	1/20/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	576
DFS 9 @ 1'	1/20/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
NH1 @ Sur	11/10/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NH1 @ 1 Ft	11/10/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EH1 @ Sur	11/10/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EH1 @ 1 Ft	11/10/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EH2 @ Sur	11/10/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EH2 @ 1 Ft	11/10/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
EH3 @ Sur	11/10/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EH3 @ 1 Ft	11/10/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EH4 @ Sur	11/10/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EH4 @ 1 Ft	11/10/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EH5 @ Sur	11/10/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EH5 @ 1 Ft	11/10/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
Excavation Samples											
NW 1	1/19/2023	0.5-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
NW 2	1/19/2023	0.5-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW 1	1/23/2023	0.5-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
SW 2	1/19/2023	0.5-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 3	1/19/2023	0.5-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Kansas 28/33 W0AP Fed Com #1H Battery Transfer Pump NMOCD Ref. #: nAPP2231362043											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SW 4	1/19/2023	0.5-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
WW 1	1/23/2023	0.5-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
WW 2	1/19/2023	0.5-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
WW 3	1/19/2023	0.5-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FS 1 @ 3'	1/23/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 2 @ 3'	1/23/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 3 @ 3'	1/23/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FS 4 @ 2'	1/23/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
FS 5 @ 2 1/2'	1/23/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FS 6 @ 2 1/2'	1/23/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 7 @ 3 1/2'	1/23/2023	3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 8 @ 2 1/2'	1/23/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FS 9 @ 2 1/2'	1/23/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 10 @ 2 1/2'	1/23/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 11 @ 2 1/2'	1/23/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 12 @ 2 1/2'	1/23/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 13 @ 2 1/2'	1/23/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 14 @ 2 1/2'	1/23/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 15 @ 2 1/2'	1/23/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 16 @ 2 1/2'	1/23/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 17 @ 2 1/2'	1/23/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 18 @ 3 1/2'	1/23/2023	3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 19 @ 2'	1/23/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 20 @ 3'	1/23/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 21 @ 3'	1/23/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 22 @ 3'	1/23/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
FS 23 @ 2 1/2'	1/23/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 24 @ 3'	1/23/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 25 @ 2 1/2'	1/23/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 26 @ 2 1/2'	1/23/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 27 @ 2'	1/23/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 28 @ 2'	1/23/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FS 29 @ 3'	1/23/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FS 30 @ 3'	1/23/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 31 @ 3'	1/23/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 32 @ 2'	1/23/2023	2	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.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Kansas 28/33 W0AP Fed Com #1H Battery Transfer Pump NMOCD Ref. #: nAPP2231362043											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FS 33 @ 2'	1/23/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FS 34 @ 2'	1/23/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 35 @ 2'	1/19/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 36 @ 2 1/2'	1/19/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 37 @ 2 1/2'	1/19/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 38 @ 2'	1/19/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 39 @ 2'	1/19/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FS 40 @ 3'	1/19/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 41 @ 2'	1/19/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FS 42 @ 2'	1/19/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FS 43 @ 2 1/2'	1/19/2023	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 44 @ 2'	1/19/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0

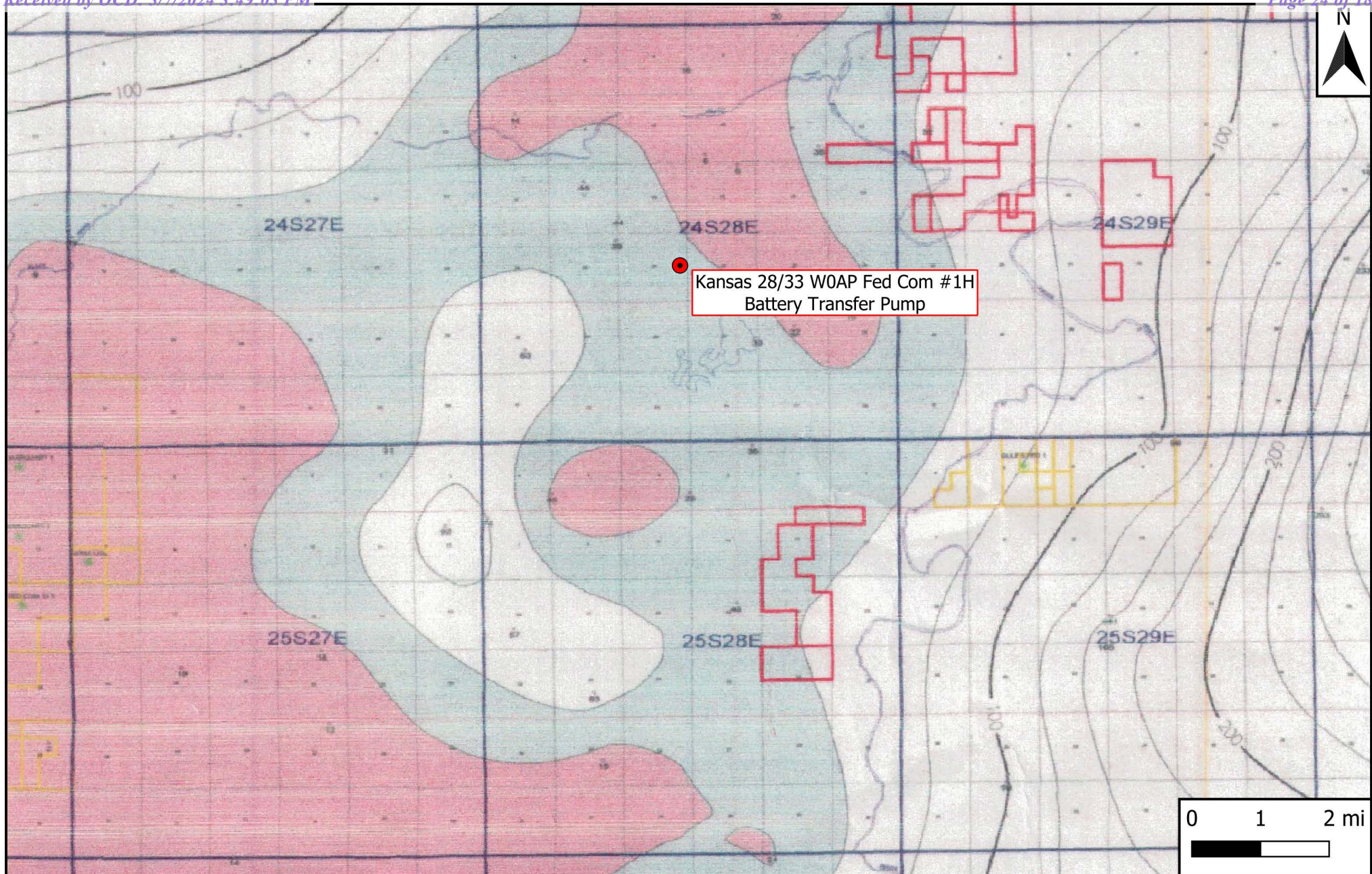
Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Appendix A

Depth to Groundwater Information



Legend

● Site Location

Figure 4

Inferred Depth to Groundwater Trend Map
Mewbourne Oil Company
Kansas 28/33 W0AP Fed Com #1H Battery Transfer Pump
GPS: 32.203598, -104.085857
Eddy County



Drafted: bja

Checked: lc

Date: 3/12/23



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 6	Q 4	Q 1	Q 2	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_02244		C	LE	3	1	2	22	24S	28E		587224	3563865*	1177	260		
C_03986 POD1		CUB	ED	3	4	2	22	24S	28E		587505	3563502	1356	170	120	50
C_04222 POD2		CUB	ED	1	2	4	22	24S	28E		587707	3563255	1555	100	40	60
C_00709		C	ED	3	3	3	16	24S	28E		584802	3564232*	1605			

Average Depth to Water: **80 feet**

Minimum Depth: **40 feet**

Maximum Depth: **120 feet**

Record Count:4

UTMNAD83 Radius Search (in meters):

Easting (X): 586155.93

Northing (Y): 3563369.66

Radius: 1610

*UTM location was derived from PLSS - see Help


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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
C	02244	3	1	2	22	24S	28E	587224	3563865* 

Driller License:	421	Driller Company:	GLENN'S WATER WELL SERVICE
Driller Name:	CORKY GLENN		
Drill Start Date:	01/03/1992	Drill Finish Date:	01/03/1992
Log File Date:	01/14/1992	PCW Rcv Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:		Depth Well:	260 feet
		Plug Date:	
		Source:	
		Estimated Yield:	
		Depth Water:	

*UTM location was derived from PLSS - see Help


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POINT OF DIVERSION SUMMARY



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
NA	C 03986 POD1	3	4	2	22	24S	28E	587505	3563502 
Driller License: 1690		Driller Company:		VISION RESOURCES, INC					
Driller Name: MALEY, JASON									
Drill Start Date: 01/09/2017		Drill Finish Date:		01/10/2017		Plug Date:			
Log File Date: 01/16/2017		PCW Rcv Date:				Source: Shallow			
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size: 6.00		Depth Well:		170 feet		Depth Water: 120 feet			
Water Bearing Stratifications:		Top	Bottom	Description					
		120	150	Sandstone/Gravel/Conglomerate					
		155	170	Sandstone/Gravel/Conglomerate					
Casing Perforations:		Top	Bottom						
		90	170						


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POINT OF DIVERSION SUMMARY



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
NA	C 04222 POD2	1	2	4	22	24S	28E	587707	3563255 
Driller License: 1706		Driller Company:		ELITE DRILLERS CORPORATION					
Driller Name: BRYCE WALLACE									
Drill Start Date:	05/29/2018	Drill Finish Date:		05/30/2018		Plug Date:			
Log File Date:	07/05/2018	PCW Rcv Date:				Source: Shallow			
Pump Type:		Pipe Discharge Size:				Estimated Yield: 50 GPM			
Casing Size:	9.30	Depth Well:		100 feet		Depth Water: 40 feet			
Water Bearing Stratifications:		Top	Bottom	Description					
		28	70	Other/Unknown					
		85	100	Limestone/Dolomite/Chalk					
Casing Perforations:		Top	Bottom						
		60	100						


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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

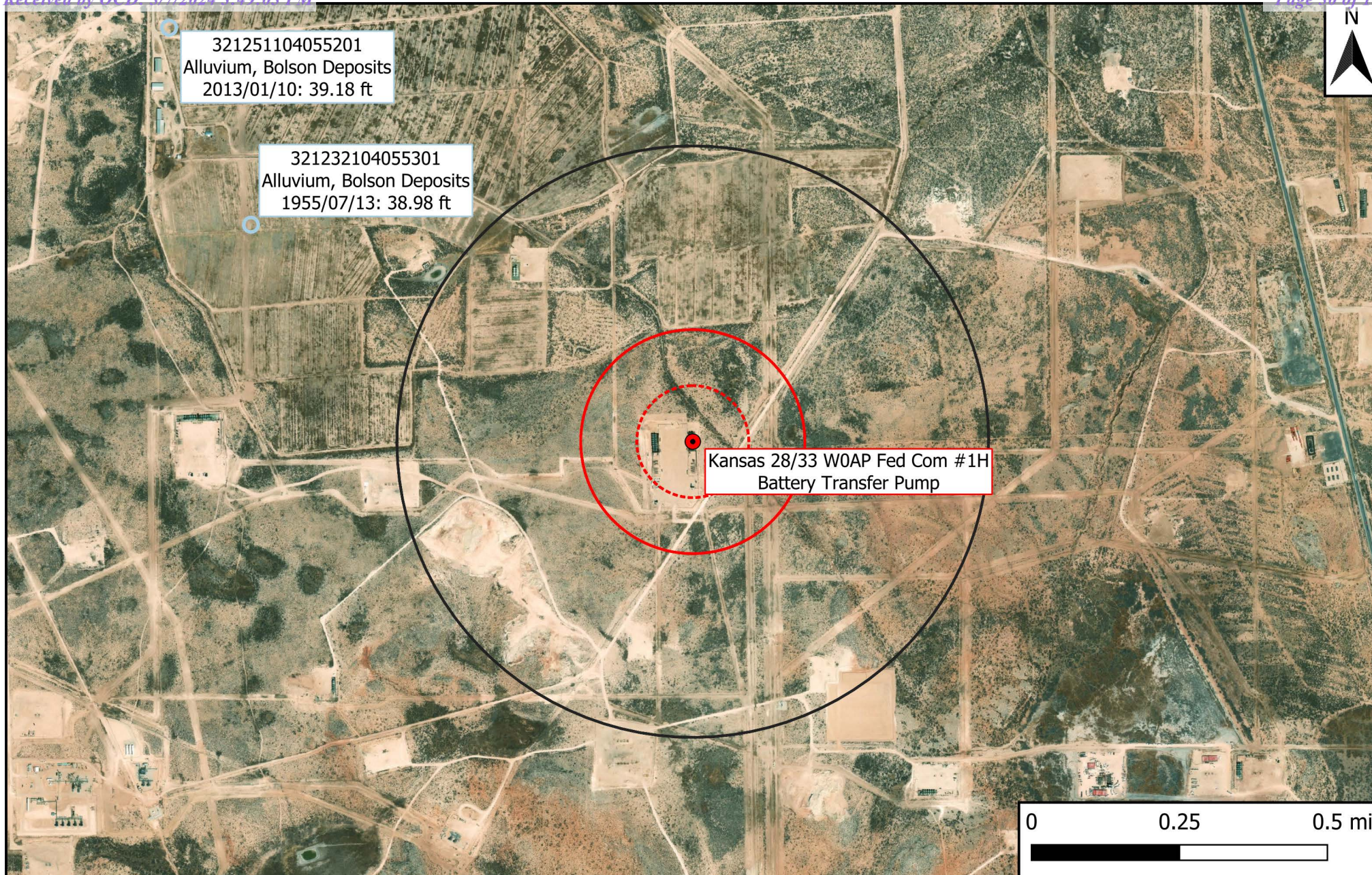
Point of Diversion Summary

		(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
C	00709	3	3	3	16	24S	28E	584802	3564232* 
Driller License: 30		Driller Company: BARRON, EMMETT							
Driller Name: EMMETT BARRON									
Drill Start Date: 05/17/1956		Drill Finish Date: 05/17/1956		Plug Date:					
Log File Date: 06/19/1956		PCW Rcv Date:		Source: Shallow					
Pump Type:		Pipe Discharge Size:		Estimated Yield:					
Casing Size:		Depth Well:		Depth Water:					

*UTM location was derived from PLSS - see Help

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

POINT OF DIVERSION SUMMARY



Legend

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

Figure 5

USGS Well Proximity Map
Mewbourne Oil Company
Kansas 28/33 W0AP Fed Com #1H
Battery Transfer Pump
GPS: 32.203598, -104.085857
Eddy County



Drafted: bja

Checked: lc

Date: 3/12/23



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

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 321232104055301

Minimum number of levels = 1

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

USGS 321232104055301 24S.28E.20.22244

Eddy County, New Mexico
Latitude 32°12'32", Longitude 104°05'53" NAD27
Land-surface elevation 3,039 feet above NAVD88
The depth of the well is 212 feet below land surface.
This well is completed in the Other aquifers (N99990THER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1954-09-20		D	72019	54.00			1	Z			A
1955-07-13		D	72019	38.98			1	Z			A

Explanation

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

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 321251104055201

Minimum number of levels = 1

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USGS 321251104055201 24S.28E.16.33111

Eddy County, New Mexico

Latitude 32°12'49.9", Longitude 104°06'03.1" NAD83

Land-surface elevation 3,041.20 feet above NGVD29

The depth of the well is 161 feet below land surface.

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

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

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1955-07-13		D	72019	37.50			1	Z			A
1955-12-14		D	72019	43.50			1	Z			A
1998-01-27		D	72019	40.36			1	S			A
2003-02-04		D	72019	45.05			1	S	USGS	S	A
2013-01-10	22:15 UTC	m	72019	39.18			1	S	USGS	S	A

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

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Appendix B

Field Data & Soil Profile Logs

Sample Log

Date: 1-12-23

Project: Kansas Containment

Project Number: 17369

Latitude: 32.20212

Longitude: -104.085723

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

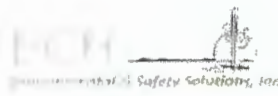
Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: 1-16-23

Project: Kansas Containment
Project Number: 17369

Latitude: 32.20212 Longitude: -104.085723

Sample ID	PID/Odor	Chloride Conc.	GPS
FS1e3'	—	328	
FS2e3'	—	408	
FS3e3'	—	408	
SW1•	—	552	
FS4e2'	—	292	
FS5e2½'	—	452	
FS6e2½'	—	452	
FS7e2½'•3½'	—	1716•3½' 260	
FS8e2½'	—	228	
FS9e2½'	—	292	
FS10e2½'	—	260	
FS11e2½'	—	452	
FS12e2½'	—	452	
FS13e2½'	—	408	
FS14e2½'	—	452	
FS15e2½'	—	260	
FS16e2½'	—	552	
FS17e2½'	—	368	
FS18e2½'•3½'	—	844•3½' 328	
FS19e2'	—	552	
FS20e2e3'	—	660•3' 328	
FS21e3'	—	328	
FS22e3'	—	408	
FS23e2½'	—	408	
WW1	—	452	
FS24e3'	—	368	
FS25e2½'	—	500	
FS26e2½'	—	292	
FS27e2'	—	260	
FS28e2'	—	552	
FS29e2e3'	—	716•3' 552	
FS30e2e3'	—	660•3' 172	
FS31e2e3'	—	716•3' 228	
FS32e2'	—	328	
NW2	—	780• 660•228	
SW2	—	804• 660•408	

Sample Point = SP #1 @ ## etc Test Trench = TT #1 @ ## Resamples = SP #1 @ 5b or SW #1b
Floor = FL #1 etc Refusal = SP #1 @ 4'-R Stockpile = Stockpile #1
Sidewall = SW #1 etc Soil Intended to be Deferred = SP #1 @ 4' In-Situ GPS Sample Points, Center of Comp Areas



Sample Log

Date: 1-18-23

Project: Kansas Containment

Project Number: 17369

Latitude: 32.20212 Longitude: -104.085723

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Deferrals

Sample Log

Date: 1-20-23

Project: Kansas Containment

Project Number: 17369 Latitude: 32.20212 Longitude: -104.085723

Sample ID	PID/Odor	Chloride Conc.	GPS
JF2 1 ^o surf	—	16940	
JF2 1 ^o i	—	408	
JF2 2 ^o surf	—	>27436	
JF2 2 ^o i e 2	—	1406 e2 208	
JF2 3 ^o surf	—	20864	
JF2 3 ^o i e 2	—	1500 e2 260	
JF2 4 ^o surf	—	1716	
JF2 4 ^o i	—	200	
JF2 5 ^o surf	—	1604	
JF2 5 ^o i	—	500	
JF2 6 ^o surf	—	23592	
JF2 6 ^o i e 2 e 3	—	2228 e2 604 e3 200	
JF2 7 ^o surf	—	3120	
JF2 7 ^o i e 2 e 3	—	780 e2 716 e3 552	
JF2 8 ^o surf	—	18716	
JF2 8 ^o i e 2 e 3	—	3680 e2 716 e3 500	
JF2 9 ^o surf	—	716	
JF2 9 ^o i	—	368	
JF2 10^o surf	—		
JF2 10^o i	—		
JF2 11^o surf	—		
JF2 11^o i	—		
JF2 12^o surf	—		
JF2 12^o i	—		
JF2 13^o surf	—		
JF2 13^o i	—		
JF2 14^o surf	—		
JF2 14^o i	—		
JF2 15^o surf	—		
JF2 15^o i	—		
JF2 16^o surf	—		
JF2 16^o i	—		
JF2 17^o surf	—		
JF2 17^o i	—		
JF2 18^o surf	—		
JF2 18^o i	—		
JF2 19^o surf	—		
JF2 19^o i	—		
JF2 20^o surf	—		
JF2 20^o i	—		
JF2 21^o surf	—		
JF2 21^o i	—		
JF2 22^o surf	—		
JF2 22^o i	—		
JF2 23^o surf	—		
JF2 23^o i	—		
JF2 24^o surf	—		
JF2 24^o i	—		
JF2 25^o surf	—		
JF2 25^o i	—		
JF2 26^o surf	—		
JF2 26^o i	—		
JF2 27^o surf	—		
JF2 27^o i	—		
JF2 28^o surf	—		
JF2 28^o i	—		
JF2 29^o surf	—		
JF2 29^o i	—		
JF2 30^o surf	—		
JF2 30^o i	—		
JF2 31^o surf	—		
JF2 31^o i	—		
JF2 32^o surf	—		
JF2 32^o i	—		
JF2 33^o surf	—		
JF2 33^o i	—		
JF2 34^o surf	—		
JF2 34^o i	—		
JF2 35^o surf	—		
JF2 35^o i	—		
JF2 36^o surf	—		
JF2 36^o i	—		
JF2 37^o surf	—		
JF2 37^o i	—		
JF2 38^o surf	—		
JF2 38^o i	—		
JF2 39^o surf	—		
JF2 39^o i	—		
JF2 40^o surf	—		
JF2 40^o i	—		
JF2 41^o surf	—		
JF2 41^o i	—		
JF2 42^o surf	—		
JF2 42^o i	—		
JF2 43^o surf	—		
JF2 43^o i	—		
JF2 44^o surf	—		
JF2 44^o i	—		
JF2 45^o surf	—		
JF2 45^o i	—		
JF2 46^o surf	—		
JF2 46^o i	—		
JF2 47^o surf	—		
JF2 47^o i	—		
JF2 48^o surf	—		
JF2 48^o i	—		
JF2 49^o surf	—		
JF2 49^o i	—		
JF2 50^o surf	—		
JF2 50^o i	—		
JF2 51^o surf	—		
JF2 51^o i	—		
JF2 52^o surf	—		
JF2 52^o i	—		
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JF2 53^o i	—		
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JF2 55^o i	—		
JF2 56^o surf	—		
JF2 56^o i	—		
JF2 57^o surf	—		
JF2 57^o i	—		
JF2 58^o surf	—		
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JF2 65^o i	—		
JF2 66^o surf	—		
JF2 66^o i	—		
JF2 67^o surf	—		
JF2 67^o i	—		
JF2 68^o surf	—		
JF2 68^o i	—		
JF2 69^o surf	—		
JF2 69^o i	—		
JF2 70^o surf	—		
JF2 70^o i	—		
JF2 71^o surf	—		
JF2 71^o i	—		
JF2 72^o surf	—		
JF2 72^o i	—		
JF2 73^o surf	—		
JF2 73^o i	—		
JF2 74^o surf	—		
JF2 74^o i	—		
JF2 75^o surf	—		
JF2 75^o i	—		
JF2 76^o surf	—		
JF2 76^o i	—		
JF2 77^o surf	—		
JF2 77^o i	—		
JF2 78^o surf	—		
JF2 78^o i	—		
JF2 79^o surf	—		
JF2 79^o i	—		
JF2 80^o surf	—		
JF2 80^o i	—		
JF2 81^o surf	—		
JF2 81^o i	—		
JF2 82^o surf	—		
JF2 82^o i	—		
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JF2 85^o surf	—		
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JF2 86^o i	—		
JF2 87^o surf	—		
JF2 87^o i	—		
JF2 88^o surf	—		
JF2 88^o i	—		
JF2 89^o surf	—		
JF2 89^o i	—		
JF2 90^o surf	—		
JF2 90^o i	—		
JF2 91^o surf	—		
JF2 91^o i	—		
JF2 92^o surf	—		
JF2 92^o i	—		
JF2 93^o surf	—		
JF2 93^o i	—		
JF2 94^o surf	—		
JF2 94^o i	—		
JF2 95^o surf	—		
JF2 95^o i	—		
JF2 96^o surf	—		
JF2 96^o i	—		
JF2 97^o surf	—		
JF2 97^o i	—		
JF2 98^o surf	—		
JF2 98^o i	—		
JF2 99^o surf	—		
JF2 99^o i	—		
JF2 100^o surf	—		
JF2 100^o i	—		

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Soil Profile

Date: _____

Project: Kansas Containment
Project Number: 17369 Latitude: 32.20212 Longitude: -104.085723

Depth (ft. bgs)	Description
1	Caliche
2	Caliche
3	Caliche-sand
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	

Appendix C

Photographic Log

Photographic Log


Photo Number: 1	 <p>Jan 10, 2023 at 10:49:14 AM +32.202840,-104.085951 ±5.00m 70° E</p>
Photo Direction: East-Northeast	
Photo Description: View of the affected area.	

Photo Number: 2	 <p>Jan 10, 2023 at 10:49:19 AM +32.202840,-104.085951 ±5.00m 334° NW</p>
Photo Direction: West-Northwest	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 3	 <p>Jan 10, 2023 at 10:49:38 AM +32.202840, -104.085951 ±5.00m 51° NE</p>
Photo Direction: Northeast	
Photo Description: View of the affected area.	

Photo Number: 4	 <p>Jan 10, 2023 at 10:49:56 AM +32.202933, -104.085950 ±5.00m 9° N</p>
Photo Direction: North	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 5	 <p>Jan 10, 2023 at 10:50:24 AM +32.203132,-104.085902 ±5.00m 315° NW</p>
Photo Direction: Northwest	
Photo Description: View of the affected area.	

Photo Number: 6	 <p>Jan 10, 2023 at 10:51:01 AM +32.203305,-104.085813 ±5.00m 168° S</p>
Photo Direction: South	
Photo Description: View of the affected area.	

Photographic Log



Photo Number: 7	 <p>Jan 10, 2023 at 10:55:14 AM +32.203417,-104.085590 ±30.00m 333° NW</p>
Photo Direction: Northwest	
Photo Description: View of the affected area.	

Photo Number: 8	 <p>Jan 10, 2023 at 10:56:11 AM +32.203894,-104.085751 ±5.00m 270° W</p>
Photo Direction: West	
Photo Description: View of the affected area.	

Photographic Log


Photo Number: 9	
Photo Direction: East-Northeast	
Photo Description: View of the excavated area.	

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

Photographic Log

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

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

Photographic Log

Photo Number: 13	 <p>1/16/23, 7:29 AM +32.203246, -104.086427 ±65.00m 51° NE</p>
Photo Direction: Northeast	
Photo Description: View of the excavated area.	

Photo Number: 14	 <p>1/16/23, 7:29 AM +32.202946, -104.086173 ±30.00m 336° NW</p>
Photo Direction: North-Northwest	
Photo Description: View of the excavated area.	

Photographic Log



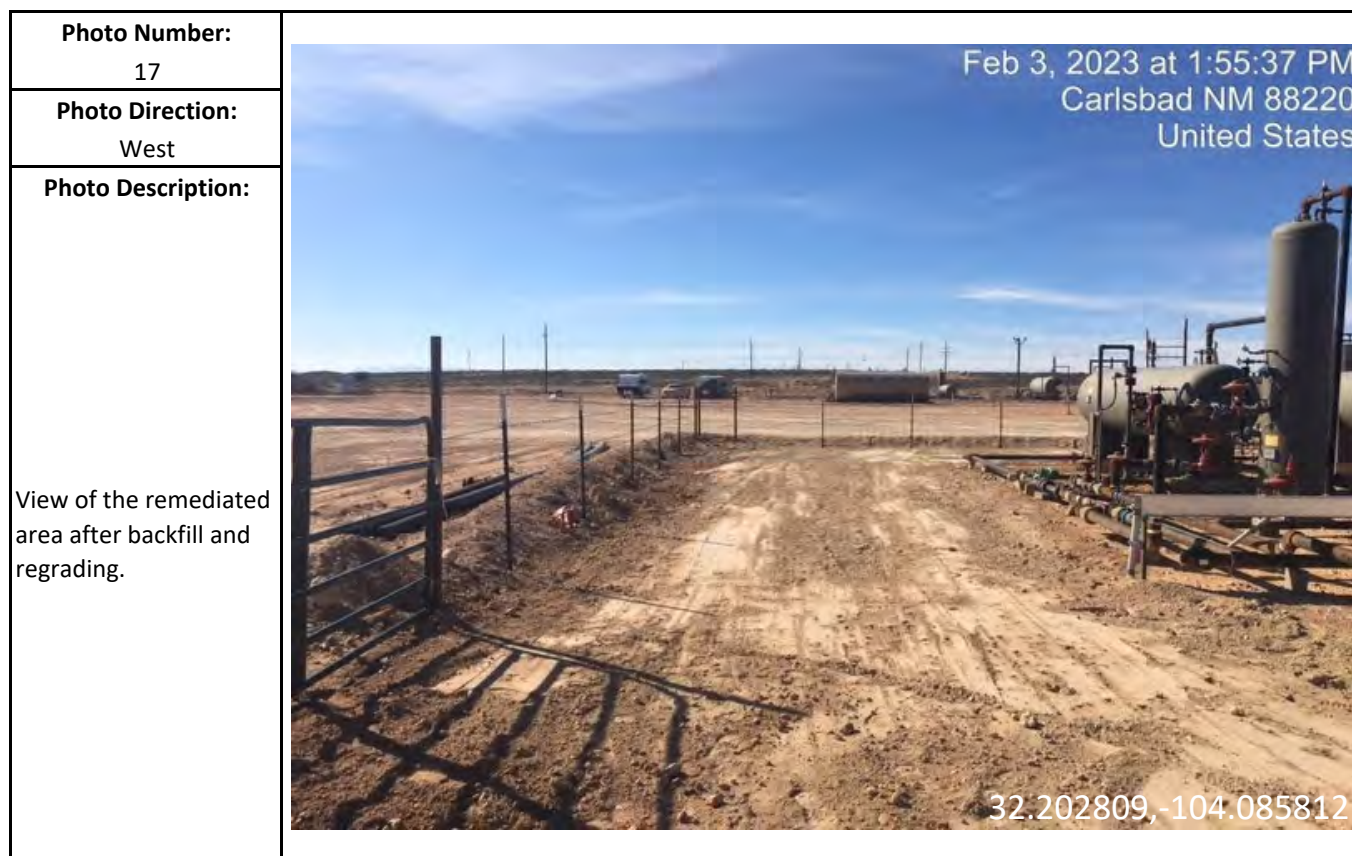
Photo Number: 15	 <p>1/16/23, 8:43 AM +32.203156,-104.086502 ±65.00m 347° N</p>
Photo Direction: North-Northwest	
Photo Description: View of the excavated area.	

Photo Number: 16	 <p>Feb 3, 2023 at 1:55:18 PM Carlsbad NM 88220 United States</p> <p>32.202812,-104.085945</p>
Photo Direction: North	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log



Photographic Log



Photo Number: 19	 <p>Feb 3, 2023 at 1:56:24 PM Carlsbad NM 88220 United States</p> <p>32.203122,-104.085902</p>
Photo Direction: East-Northeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 20	 <p>Feb 3, 2023 at 1:56:36 PM Carlsbad NM 88220 United States</p> <p>32.203336,-104.085823</p>
Photo Direction: North	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log

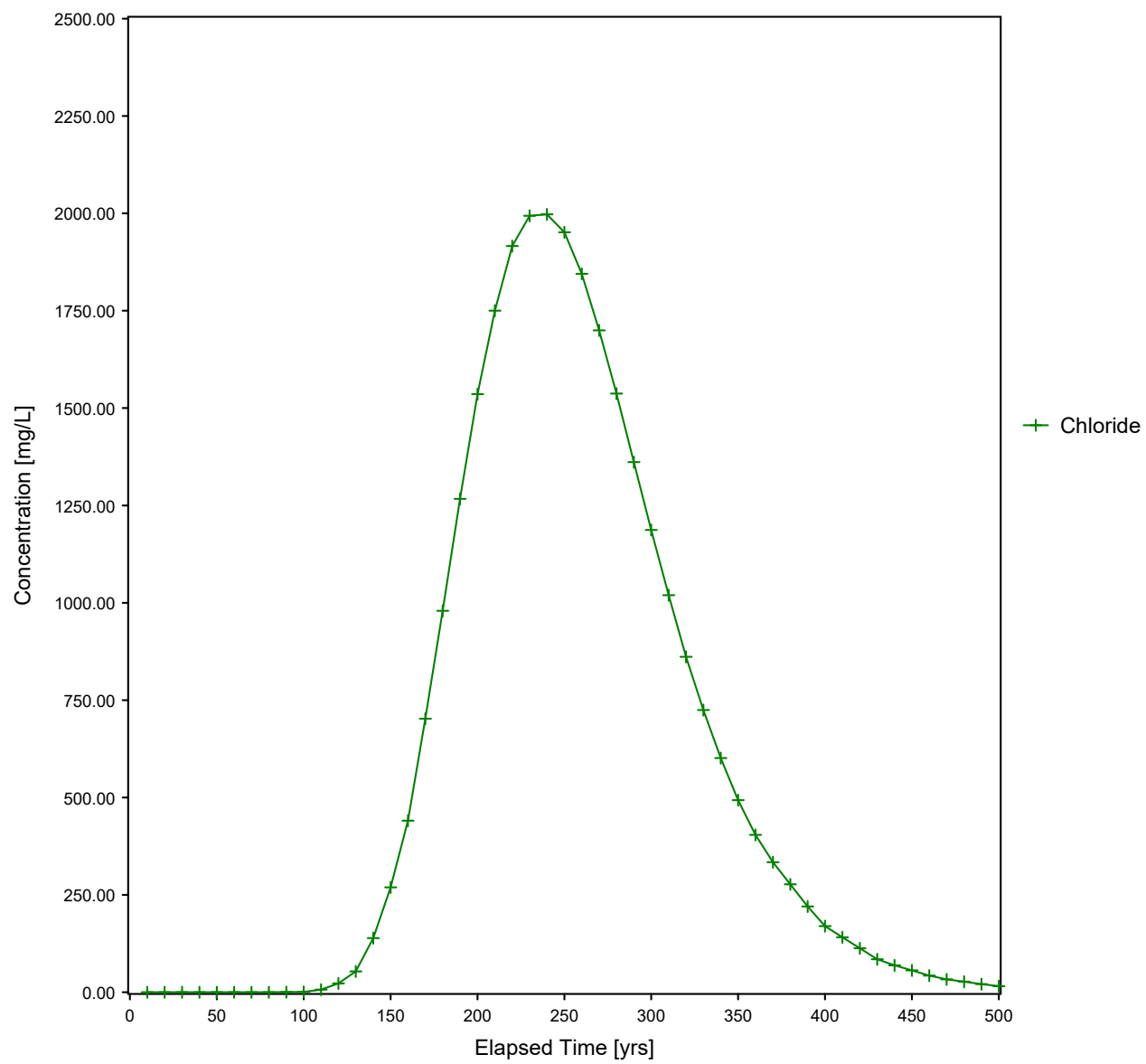
Photo Number: 21	 <p>Feb 3, 2023 at 1:57:11 PM Carlsbad NM 88220 United States</p> <p>32.203223,-104.085893</p>
Photo Direction: Southeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 22	 <p>Feb 3, 2023 at 1:57:22 PM Carlsbad NM 88220 United States</p> <p>32.203185,-104.085931</p>
Photo Direction: South	
Photo Description: View of the remediated area after backfill and regrading.	

Appendix D

Multimedia Exposure Assessment Model (MULTIMED)

Chloride Concentration At The Receptor Well
Mewbourne Oil Company
Kansas 28/33 W0AP Fed Com #1H Battery Transfer Pump



U. S. ENVIRONMENTAL PROTECTION AGENCY
EXPOSURE ASSESSMENT
MULTIMEDIA MODEL
MULTIMED (Version 1.50, 2005)

Run options

Mwbourne Oil Company
Kansas 28/33 W0AP Fed Com #1H Battery Transfer Pump

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: Entered Explicitly
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	3
KPROP	- Van Genuchten or Brooks and Corey	1
IMSHGN	- Spatial discretization option	1
NVFLAYR	- Number of layers in flow model	3

OPTIONS CHOSEN

Van Genuchten functional coefficients
User defined coordinate system

Layer information

LAYER NO.	LAYER THICKNESS	MATERIAL PROPERTY
1	0.91	1
2	0.58	1
3	27.05	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	3.60	-999.	-999.	-999.
Unsaturated zone porosity	--	CONSTANT	0.250	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	0.700	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	28.5	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	0.116	-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	1.09	-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	0.140	-999.	-999.	-999.
Unsaturated zone porosity	--	CONSTANT	0.120	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	0.700	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	28.5	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	0.600E-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	1.09	-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	3.60	-999.	-999.	-999.
Unsaturated zone porosity	--	CONSTANT	0.250	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	0.700	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	28.5	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	0.116	-999.	-999.	-999.
Brook and Corey exponent,EN	--	CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.500E-03	-999.	-999.	-999.
Van Genuchten exponent, ENN	--	CONSTANT	1.09	-999.	-999.	-999.

UNSATURATED ZONE TRANSPORT MODEL PARAMETERS

NLAY	- Number of different layers used	1
NTSTPS	- Number of time values concentration calc	40
DUMMY	- Not presently used	1
ISOL	- Type of scheme used in unsaturated zone	2
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

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	28.5	-999.	-999.	-999.
Longitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.
Percent organic matter	--	CONSTANT	0.100	-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.

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	0.305E-01	-999.	-999.	-999.
Area of waste disposal unit	m^2	CONSTANT	790.	-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	0.125E+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	4.57	-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.

TIME CONCENTRATION

0.100E+02	0.00000E+00
0.200E+02	0.00000E+00
0.300E+02	0.00000E+00
0.400E+02	0.00000E+00
0.500E+02	0.00000E+00
0.600E+02	0.00000E+00
0.700E+02	0.00000E+00
0.800E+02	0.00000E+00
0.900E+02	0.21433E+00
0.100E+03	0.86679E+00
0.110E+03	0.65071E+01
0.120E+03	0.22790E+02
0.130E+03	0.53547E+02
0.140E+03	0.13901E+03
0.150E+03	0.26934E+03
0.160E+03	0.44059E+03
0.170E+03	0.70233E+03
0.180E+03	0.97925E+03
0.190E+03	0.12668E+04

0.200E+03 0.15357E+04
0.210E+03 0.17501E+04
0.220E+03 0.19161E+04
0.230E+03 0.19939E+04
0.240E+03 0.19976E+04
0.250E+03 0.19513E+04
0.260E+03 0.18450E+04
0.270E+03 0.16996E+04
0.280E+03 0.15372E+04
0.290E+03 0.13612E+04
0.300E+03 0.11869E+04
0.310E+03 0.10194E+04
0.320E+03 0.86127E+03
0.330E+03 0.72477E+03
0.340E+03 0.60144E+03
0.350E+03 0.49328E+03
0.360E+03 0.40392E+03
0.370E+03 0.33372E+03
0.380E+03 0.27699E+03
0.390E+03 0.22026E+03
0.400E+03 0.16965E+03
0.410E+03 0.14128E+03
0.420E+03 0.11292E+03
0.430E+03 0.84549E+02
0.440E+03 0.69258E+02
0.450E+03 0.55911E+02
0.460E+03 0.42565E+02
0.470E+03 0.33048E+02
0.480E+03 0.26992E+02
0.490E+03 0.20936E+02
0.500E+03 0.15487E+02
0.510E+03 0.12794E+02
0.520E+03 0.10104E+02
0.530E+03 0.74127E+01
0.540E+03 0.59814E+01
0.550E+03 0.47998E+01
0.560E+03 0.36182E+01
0.570E+03 0.27625E+01
0.580E+03 0.22470E+01
0.590E+03 0.17315E+01
0.600E+03 0.12584E+01
0.610E+03 0.10338E+01
0.620E+03 0.80963E+00
0.630E+03 0.58549E+00
0.640E+03 0.46264E+00
0.650E+03 0.36536E+00
0.660E+03 0.26807E+00
0.670E+03 0.19576E+00
0.680E+03 0.15357E+00
0.690E+03 0.11138E+00
0.700E+03 0.71921E-01
0.710E+03 0.53486E-01
0.720E+03 0.35199E-01
0.730E+03 0.16911E-01
0.740E+03 0.65259E-02
0.750E+03 0.00000E+00

0.760E+03	0.000000E+00
0.770E+03	0.000000E+00
0.780E+03	0.000000E+00
0.790E+03	0.000000E+00
0.800E+03	0.000000E+00
0.810E+03	0.000000E+00
0.820E+03	0.000000E+00
0.830E+03	0.000000E+00
0.840E+03	0.000000E+00
0.850E+03	0.000000E+00
0.860E+03	0.000000E+00
0.870E+03	0.000000E+00
0.880E+03	0.000000E+00
0.890E+03	0.000000E+00
0.900E+03	0.000000E+00
0.910E+03	0.000000E+00
0.920E+03	0.000000E+00
0.930E+03	0.000000E+00
0.940E+03	0.000000E+00
0.950E+03	0.000000E+00
0.960E+03	0.000000E+00
0.970E+03	0.000000E+00
0.980E+03	0.000000E+00
0.990E+03	0.000000E+00
0.100E+04	0.000000E+00

Appendix E

Laboratory Analytical Reports



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

January 23, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: KANSAS CONTAINMENT

Enclosed are the results of analyses for samples received by the laboratory on 01/19/23 15:39.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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: 01/19/2023
 Reported: 01/23/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 1 (H230289-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2023	ND	2.15	108	2.00	1.49	
Toluene*	<0.050	0.050	01/21/2023	ND	2.21	111	2.00	1.92	
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.14	107	2.00	1.63	
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.58	110	6.00	1.95	
Total BTX	<0.300	0.300	01/21/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	01/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	243	121	200	3.04	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	227	113	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2023
 Reported: 01/23/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 2 (H230289-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2023	ND	2.15	108	2.00	1.49		
Toluene*	<0.050	0.050	01/21/2023	ND	2.21	111	2.00	1.92		
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.14	107	2.00	1.63		
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.58	110	6.00	1.95		
Total BTEX	<0.300	0.300	01/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	230	115	200	2.48	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	221	110	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2023
 Reported: 01/23/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 2 (H230289-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2023	ND	2.15	108	2.00	1.49		
Toluene*	<0.050	0.050	01/21/2023	ND	2.21	111	2.00	1.92		
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.14	107	2.00	1.63		
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.58	110	6.00	1.95		
Total BTEX	<0.300	0.300	01/21/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	01/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	230	115	200	2.48	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	221	110	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 97.7 % 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

Analytical Results For:

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

Received: 01/19/2023
 Reported: 01/23/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 3 (H230289-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2023	ND	2.15	108	2.00	1.49		
Toluene*	<0.050	0.050	01/21/2023	ND	2.21	111	2.00	1.92		
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.14	107	2.00	1.63		
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.58	110	6.00	1.95		
Total BTEX	<0.300	0.300	01/21/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	01/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	230	115	200	2.48	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	221	110	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2023
 Reported: 01/23/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 2 (H230289-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2023	ND	2.15	108	2.00	1.49		
Toluene*	<0.050	0.050	01/21/2023	ND	2.21	111	2.00	1.92		
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.14	107	2.00	1.63		
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.58	110	6.00	1.95		
Total BTEx	<0.300	0.300	01/21/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	230	115	200	2.48	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	221	110	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

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

Received: 01/19/2023
 Reported: 01/23/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 3 (H230289-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2023	ND	2.15	108	2.00	1.49		
Toluene*	<0.050	0.050	01/21/2023	ND	2.21	111	2.00	1.92		
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.14	107	2.00	1.63		
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.58	110	6.00	1.95		
Total BTEX	<0.300	0.300	01/21/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	230	115	200	2.48	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	221	110	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received: 01/19/2023
 Reported: 01/23/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 4 (H230289-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2023	ND	2.15	108	2.00	1.49		
Toluene*	<0.050	0.050	01/21/2023	ND	2.21	111	2.00	1.92		
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.14	107	2.00	1.63		
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.58	110	6.00	1.95		
Total BTEX	<0.300	0.300	01/21/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	230	115	200	2.48	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	221	110	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 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: 01/19/2023
 Reported: 01/23/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 35 @ 2' (H230289-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2023	ND	2.15	108	2.00	1.49		
Toluene*	<0.050	0.050	01/21/2023	ND	2.21	111	2.00	1.92		
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.14	107	2.00	1.63		
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.58	110	6.00	1.95		
Total BTEX	<0.300	0.300	01/21/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	230	115	200	2.48	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	221	110	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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 Fax To:

Received: 01/19/2023
 Reported: 01/23/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 36 @ 2 1/2' (H230289-09)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2023	ND	2.15	108	2.00	1.49		
Toluene*	<0.050	0.050	01/21/2023	ND	2.21	111	2.00	1.92		
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.14	107	2.00	1.63		
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.58	110	6.00	1.95		
Total BTEX	<0.300	0.300	01/21/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	230	115	200	2.48	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	221	110	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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: 01/19/2023
 Reported: 01/23/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 37 @ 2 1/2' (H230289-10)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2023	ND	2.15	108	2.00	1.49		
Toluene*	<0.050	0.050	01/21/2023	ND	2.21	111	2.00	1.92		
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.14	107	2.00	1.63		
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.58	110	6.00	1.95		
Total BTEX	<0.300	0.300	01/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	230	115	200	2.48	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	221	110	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received: 01/19/2023
 Reported: 01/23/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 38 @ 2' (H230289-11)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2023	ND	2.15	108	2.00	1.49		
Toluene*	<0.050	0.050	01/21/2023	ND	2.21	111	2.00	1.92		
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.14	107	2.00	1.63		
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.58	110	6.00	1.95		
Total BTEX	<0.300	0.300	01/21/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	230	115	200	2.48	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	221	110	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

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

Received: 01/19/2023
 Reported: 01/23/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 39 @ 2' (H230289-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/22/2023	ND	2.15	108	2.00	1.49		
Toluene*	<0.050	0.050	01/22/2023	ND	2.21	111	2.00	1.92		
Ethylbenzene*	<0.050	0.050	01/22/2023	ND	2.14	107	2.00	1.63		
Total Xylenes*	<0.150	0.150	01/22/2023	ND	6.58	110	6.00	1.95		
Total BTEX	<0.300	0.300	01/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	230	115	200	2.48	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	221	110	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Analytical Results For:

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

Received: 01/19/2023
 Reported: 01/23/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 40 @ 3' (H230289-13)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/22/2023	ND	2.15	108	2.00	1.49		
Toluene*	<0.050	0.050	01/22/2023	ND	2.21	111	2.00	1.92		
Ethylbenzene*	<0.050	0.050	01/22/2023	ND	2.14	107	2.00	1.63		
Total Xylenes*	<0.150	0.150	01/22/2023	ND	6.58	110	6.00	1.95		
Total BTEX	<0.300	0.300	01/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	230	115	200	2.48	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	221	110	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 73.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.8 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2023
 Reported: 01/23/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 41 @ 2' (H230289-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2023	ND	2.09	104	2.00	1.57		
Toluene*	<0.050	0.050	01/21/2023	ND	2.27	114	2.00	0.661		
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.17	109	2.00	1.76		
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.69	112	6.00	0.878		
Total BTEX	<0.300	0.300	01/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	230	115	200	2.48	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	221	110	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2023
 Reported: 01/23/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 42 @ 2' (H230289-15)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2023	ND	2.09	104	2.00	1.57		
Toluene*	<0.050	0.050	01/21/2023	ND	2.27	114	2.00	0.661		
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.17	109	2.00	1.76		
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.69	112	6.00	0.878		
Total BTEX	<0.300	0.300	01/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	230	115	200	2.48	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	221	110	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2023
 Reported: 01/23/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 43 @ 2 1/2' (H230289-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2023	ND	2.09	104	2.00	1.57		
Toluene*	<0.050	0.050	01/21/2023	ND	2.27	114	2.00	0.661		
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.17	109	2.00	1.76		
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.69	112	6.00	0.878		
Total BTEX	<0.300	0.300	01/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	230	115	200	2.48	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	221	110	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2023
 Reported: 01/23/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 44 @ 2' (H230289-17)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2023	ND	2.09	104	2.00	1.57	
Toluene*	<0.050	0.050	01/21/2023	ND	2.27	114	2.00	0.661	
Ethylbenzene*	<0.050	0.050	01/21/2023	ND	2.17	109	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/21/2023	ND	6.69	112	6.00	0.878	
Total BTEX	<0.300	0.300	01/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2023	ND	230	115	200	2.48	
DRO >C10-C28*	<10.0	10.0	01/20/2023	ND	221	110	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	01/20/2023	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Routine

1 of 2

[illegible]



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Routine

2 + 2

[illegible]

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

January 25, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: KANSAS CONTAINMENT

Enclosed are the results of analyses for samples received by the laboratory on 01/20/23 15:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 1 @ SURF. (H230313-01)

BTX 8021B		mg/kg	Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2023	ND	2.12	106	2.00	3.33	
Toluene*	<0.050	0.050	01/23/2023	ND	2.12	106	2.00	0.918	
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.09	105	2.00	2.53	
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.29	105	6.00	2.74	
Total BTX	<0.300	0.300	01/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17000	16.0	01/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	229	114	200	1.58	
DRO >C10-C28*	1820	10.0	01/24/2023	ND	209	104	200	1.56	
EXT DRO >C28-C36	966	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 145 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 1 @ 1' (H230313-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2023	ND	2.12	106	2.00	3.33		
Toluene*	<0.050	0.050	01/23/2023	ND	2.12	106	2.00	0.918		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.09	105	2.00	2.53		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.29	105	6.00	2.74		
Total BTEX	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	229	114	200	1.58	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	209	104	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 2 @ SURF. (H230313-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2023	ND	2.12	106	2.00	3.33		
Toluene*	<0.050	0.050	01/23/2023	ND	2.12	106	2.00	0.918		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.09	105	2.00	2.53		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.29	105	6.00	2.74		
Total BTEX	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	42000	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	229	114	200	1.58	
DRO >C10-C28*	17.3	10.0	01/24/2023	ND	209	104	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 65.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 2 @ 1' (H230313-04)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2023	ND	2.12	106	2.00	3.33	
Toluene*	<0.050	0.050	01/23/2023	ND	2.12	106	2.00	0.918	
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.09	105	2.00	2.53	
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.29	105	6.00	2.74	
Total BTEX	<0.300	0.300	01/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5280	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	229	114	200	1.58	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	209	104	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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Analytical Results For:

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

Received: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 2 @ 2' (H230313-05)

BTEx 8021B			mg/kg							
			Analyzed By: JH/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	4.34		
Toluene*	<0.050	0.050	01/23/2023	ND	2.09	105	2.00	3.79		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.02	101	2.00	4.20		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.23	104	6.00	4.02		
Total BTEX	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	229	114	200	1.58		
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	209	104	200	1.56		
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND						

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

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

Received: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 3 @ SURF. (H230313-06)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	4.34	
Toluene*	<0.050	0.050	01/23/2023	ND	2.09	105	2.00	3.79	
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.02	101	2.00	4.20	
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.23	104	6.00	4.02	
Total BTEX	<0.300	0.300	01/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	21400	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	229	114	200	1.58	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	209	104	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 75.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

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Analytical Results For:

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

Received: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 3 @ 1' (H230313-07)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	4.34	
Toluene*	<0.050	0.050	01/23/2023	ND	2.09	105	2.00	3.79	
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.02	101	2.00	4.20	
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.23	104	6.00	4.02	
Total BTEX	<0.300	0.300	01/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	01/23/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	229	114	200	1.58	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	209	104	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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 HOBBS NM, 88240
 Fax To:

Received: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 3 @ 2' (H230313-08)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	4.34	
Toluene*	<0.050	0.050	01/23/2023	ND	2.09	105	2.00	3.79	
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.02	101	2.00	4.20	
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.23	104	6.00	4.02	
Total BTEX	<0.300	0.300	01/23/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	229	114	200	1.58	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	209	104	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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 HOBBS NM, 88240
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Received: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 4 @ SURF. (H230313-09)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	4.34	
Toluene*	<0.050	0.050	01/23/2023	ND	2.09	105	2.00	3.79	
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.02	101	2.00	4.20	
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.23	104	6.00	4.02	
Total BTEX	<0.300	0.300	01/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1300	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	229	114	200	1.58	
DRO >C10-C28*	2390	10.0	01/24/2023	ND	209	104	200	1.56	
EXT DRO >C28-C36	897	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 69.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 4 @ 1' (H230313-10)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	4.34		
Toluene*	<0.050	0.050	01/23/2023	ND	2.09	105	2.00	3.79		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.02	101	2.00	4.20		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.23	104	6.00	4.02		
Total BTEX	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	229	114	200	1.58	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	209	104	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

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

Received: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 5 @ SURF. (H230313-11)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	4.34	
Toluene*	<0.050	0.050	01/23/2023	ND	2.09	105	2.00	3.79	
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.02	101	2.00	4.20	
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.23	104	6.00	4.02	
Total BTEX	<0.300	0.300	01/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1420	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	229	114	200	1.58	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	209	104	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 49.1-148

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Analytical Results For:

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

Received: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 5 @ 1' (H230313-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	4.34		
Toluene*	<0.050	0.050	01/23/2023	ND	2.09	105	2.00	3.79		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.02	101	2.00	4.20		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.23	104	6.00	4.02		
Total BTEX	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	229	114	200	1.58	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	209	104	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 6 @ SURF. (H230313-13)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	4.34		
Toluene*	<0.050	0.050	01/23/2023	ND	2.09	105	2.00	3.79		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.02	101	2.00	4.20		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.23	104	6.00	4.02		
Total BTEX	<0.300	0.300	01/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	25200	16.0	01/23/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	207	104	200	2.39	
DRO >C10-C28*	589	10.0	01/23/2023	ND	199	99.5	200	1.63	QM-07
EXT DRO >C28-C36	196	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 64.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 6 @ 1' (H230313-14)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	4.34		
Toluene*	<0.050	0.050	01/23/2023	ND	2.09	105	2.00	3.79		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.02	101	2.00	4.20		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.23	104	6.00	4.02		
Total BTEX	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	01/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	207	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	199	99.5	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 6 @ 2' (H230313-15)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	4.34		
Toluene*	<0.050	0.050	01/23/2023	ND	2.09	105	2.00	3.79		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.02	101	2.00	4.20		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.23	104	6.00	4.02		
Total BTEX	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/23/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	207	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	199	99.5	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 6 @ 3' (H230313-16)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	4.34		
Toluene*	<0.050	0.050	01/23/2023	ND	2.09	105	2.00	3.79		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.02	101	2.00	4.20		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.23	104	6.00	4.02		
Total BTEX	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	207	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	199	99.5	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 7 @ SURF. (H230313-17)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	4.34	
Toluene*	<0.050	0.050	01/23/2023	ND	2.09	105	2.00	3.79	
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.02	101	2.00	4.20	
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.23	104	6.00	4.02	
Total BTEX	<0.300	0.300	01/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2920	16.0	01/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	207	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	199	99.5	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 83.8 % 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: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 7 @ 1' (H230313-18)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	4.34		
Toluene*	<0.050	0.050	01/23/2023	ND	2.09	105	2.00	3.79		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.02	101	2.00	4.20		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.23	104	6.00	4.02		
Total BTEX	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	01/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	207	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	199	99.5	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 7 @ 2' (H230313-19)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	4.34		
Toluene*	<0.050	0.050	01/23/2023	ND	2.09	105	2.00	3.79		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.02	101	2.00	4.20		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.23	104	6.00	4.02		
Total BTEX	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	01/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	207	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	199	99.5	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 7 @ 3' (H230313-20)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	4.34		
Toluene*	<0.050	0.050	01/23/2023	ND	2.09	105	2.00	3.79		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.02	101	2.00	4.20		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.23	104	6.00	4.02		
Total BTEx	<0.300	0.300	01/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	01/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	207	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	199	99.5	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 8 @ SURF. (H230313-21)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	4.34	
Toluene*	<0.050	0.050	01/23/2023	ND	2.09	105	2.00	3.79	
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.02	101	2.00	4.20	
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.23	104	6.00	4.02	
Total BTEX	<0.300	0.300	01/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	26000	16.0	01/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	207	104	200	2.39	
DRO >C10-C28*	2470	10.0	01/23/2023	ND	199	99.5	200	1.63	
EXT DRO >C28-C36	514	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 203 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 8 @ 1' (H230313-22)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	4.34	
Toluene*	<0.050	0.050	01/23/2023	ND	2.09	105	2.00	3.79	
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.02	101	2.00	4.20	
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.23	104	6.00	4.02	
Total BTEX	<0.300	0.300	01/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	01/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	207	104	200	2.39	
DRO >C10-C28*	13.6	10.0	01/23/2023	ND	199	99.5	200	1.63	
EXT DRO >C28-C36	10.7	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 8 @ 2' (H230313-23)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	4.34		
Toluene*	<0.050	0.050	01/23/2023	ND	2.09	105	2.00	3.79		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.02	101	2.00	4.20		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.23	104	6.00	4.02		
Total BTEX	<0.300	0.300	01/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	01/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	207	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	199	99.5	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 8 @ 3' (H230313-24)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	4.34		
Toluene*	<0.050	0.050	01/23/2023	ND	2.09	105	2.00	3.79		
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.02	101	2.00	4.20		
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.23	104	6.00	4.02		
Total BTEX	<0.300	0.300	01/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	01/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	207	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	199	99.5	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 9 @ SURF. (H230313-25)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	1.87	93.6	2.00	14.0		
Toluene*	<0.050	0.050	01/24/2023	ND	1.94	96.9	2.00	14.7		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	1.88	94.2	2.00	14.3		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	5.83	97.1	6.00	14.2		
Total BTEX	<0.300	0.300	01/24/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	01/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	207	104	200	2.39	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	199	99.5	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 70.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/20/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 9 @ 1' (H230313-26)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	1.87	93.6	2.00	14.0		
Toluene*	<0.050	0.050	01/24/2023	ND	1.94	96.9	2.00	14.7		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	1.88	94.2	2.00	14.3		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	5.83	97.1	6.00	14.2		
Total BTEX	<0.300	0.300	01/24/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	01/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	225	113	200	1.46	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	216	108	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

**ARDINAL LABORATORIES**


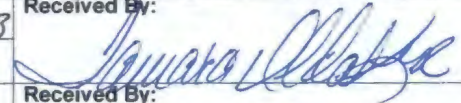
101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Routine

1.43

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 W Marland				Company: Menbourne																																																																																																																																																																																																																																																																																																																																																																																	
City: Hobbs State: NM Zip: 88240				Attn: Jeff Broom																																																																																																																																																																																																																																																																																																																																																																																	
Phone #: (575) 264-9884 Fax #:				Address: 4801 Business Pk Blvd																																																																																																																																																																																																																																																																																																																																																																																	
Project #: 17369 Project Owner: Menbourne				City: Hobbs																																																																																																																																																																																																																																																																																																																																																																																	
Project Name: Kansas Containment				State: NM Zip: 88240																																																																																																																																																																																																																																																																																																																																																																																	
Project Location:				Phone #: (575) 605-6908																																																																																																																																																																																																																																																																																																																																																																																	
Sampler Name: Eric Mojica				Fax #:																																																																																																																																																																																																																																																																																																																																																																																	
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CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

Routine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2. f. 5.

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																			
Project Manager: Lance Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																																			
Address: 2617 W Marland				Company: Mewbourne																																							
City: Hobbs State: NM Zip: 88240				Attn: Jeff Broom																																							
Phone #: (575) 264-9884 Fax #:				Address: 801 Business Pkwy																																							
Project #: 17369 Project Owner: Mewbourne				City: Hobbs																																							
Project Name: Kansas Containment				State: NM Zip: 88240																																							
Project Location:				Phone #: (575) 605-6908																																							
Sampler Name: Eric Mojica				Fax #:																																							
FOR LAB USE ONLY						MATRIX		PRESERV		SAMPLING																																	
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / GEL:		OTHER:		DATE		TIME															
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Eric Mojica				Time: 1520				[Signature]				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																											
Relinquished By:				Date:				Received By:				REMARKS:																															
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Sampler - UPS - Bus - Other:				4.9c / 14.3c				Cool Intact				(Initials)																															
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Routine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3. + 3

~~Page 31 of 31~~

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

January 25, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: KANSAS CONTAINMENT

Enclosed are the results of analyses for samples received by the laboratory on 01/24/23 9:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 1 @ 3' (H230333-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2023	ND	2.01	100	2.00	1.70	
Toluene*	<0.050	0.050	01/24/2023	ND	2.08	104	2.00	1.90	
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.04	102	2.00	2.85	
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.29	105	6.00	3.85	
Total BTX	<0.300	0.300	01/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/24/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	214	107	200	0.0714	QR-03
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	192	96.1	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 2 @ 3' (H230333-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	2.01	100	2.00	1.70		
Toluene*	<0.050	0.050	01/24/2023	ND	2.08	104	2.00	1.90		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.29	105	6.00	3.85		
Total BTEX	<0.300	0.300	01/24/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/24/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	214	107	200	0.0714	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	192	96.1	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 3 @ 3' (H230333-03)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2023	ND	2.01	100	2.00	1.70	
Toluene*	<0.050	0.050	01/24/2023	ND	2.08	104	2.00	1.90	
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.04	102	2.00	2.85	
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.29	105	6.00	3.85	
Total BTEX	<0.300	0.300	01/24/2023	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	416	16.0	01/24/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	214	107	200	0.0714	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	192	96.1	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 77.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 49.1-148

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Analytical Results For:

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

Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 4 @ 2' (H230333-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	2.01	100	2.00	1.70		
Toluene*	<0.050	0.050	01/24/2023	ND	2.08	104	2.00	1.90		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.29	105	6.00	3.85		
Total BTEX	<0.300	0.300	01/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	432	16.0	01/24/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	214	107	200	0.0714	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	192	96.1	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 69.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.0 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
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Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 5 @ 2 1/2' (H230333-05)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2023	ND	2.01	100	2.00	1.70	
Toluene*	<0.050	0.050	01/24/2023	ND	2.08	104	2.00	1.90	
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.04	102	2.00	2.85	
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.29	105	6.00	3.85	
Total BTEX	<0.300	0.300	01/24/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/24/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	214	107	200	0.0714	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	192	96.1	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
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Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 6 @ 2 1/2' (H230333-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	2.01	100	2.00	1.70		
Toluene*	<0.050	0.050	01/24/2023	ND	2.08	104	2.00	1.90		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.29	105	6.00	3.85		
Total BTEX	<0.300	0.300	01/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/24/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	214	107	200	0.0714	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	192	96.1	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 49.1-148

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Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 7 @ 3 1/2' (H230333-07)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2023	ND	2.01	100	2.00	1.70	
Toluene*	<0.050	0.050	01/24/2023	ND	2.08	104	2.00	1.90	
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.04	102	2.00	2.85	
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.29	105	6.00	3.85	
Total BTEX	<0.300	0.300	01/24/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/24/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	214	107	200	0.0714	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	192	96.1	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 8 @ 2 1/2' (H230333-08)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2023	ND	2.01	100	2.00	1.70	
Toluene*	<0.050	0.050	01/24/2023	ND	2.08	104	2.00	1.90	
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.04	102	2.00	2.85	
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.29	105	6.00	3.85	
Total BTEX	<0.300	0.300	01/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	01/24/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	214	107	200	0.0714	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	192	96.1	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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 Fax To:

Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 9 @ 2 1/2' (H230333-09)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2023	ND	2.01	100	2.00	1.70	
Toluene*	<0.050	0.050	01/24/2023	ND	2.08	104	2.00	1.90	
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.04	102	2.00	2.85	
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.29	105	6.00	3.85	
Total BTEX	<0.300	0.300	01/24/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/24/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	214	107	200	0.0714	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	192	96.1	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 10 @ 2 1/2' (H230333-10)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	2.01	100	2.00	1.70		
Toluene*	<0.050	0.050	01/24/2023	ND	2.08	104	2.00	1.90		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.29	105	6.00	3.85		
Total BTEX	<0.300	0.300	01/24/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/24/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	214	107	200	0.0714	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	192	96.1	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 11 @ 2 1/2' (H230333-11)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	2.01	100	2.00	1.70		
Toluene*	<0.050	0.050	01/24/2023	ND	2.08	104	2.00	1.90		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.29	105	6.00	3.85		
Total BTEX	<0.300	0.300	01/24/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/24/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	214	107	200	0.0714	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	192	96.1	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 12 @ 2 1/2' (H230333-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	2.01	100	2.00	1.70		
Toluene*	<0.050	0.050	01/24/2023	ND	2.08	104	2.00	1.90		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.29	105	6.00	3.85		
Total BTEX	<0.300	0.300	01/24/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	01/24/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	214	107	200	0.0714	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	192	96.1	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Analytical Results For:

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

Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 13 @ 2 1/2' (H230333-13)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	2.01	100	2.00	1.70		
Toluene*	<0.050	0.050	01/24/2023	ND	2.08	104	2.00	1.90		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.29	105	6.00	3.85		
Total BTEX	<0.300	0.300	01/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	01/24/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	214	107	200	0.0714	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	192	96.1	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

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

Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 14 @ 2 1/2' (H230333-14)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	2.01	100	2.00	1.70		
Toluene*	<0.050	0.050	01/24/2023	ND	2.08	104	2.00	1.90		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.29	105	6.00	3.85		
Total BTEX	<0.300	0.300	01/24/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/24/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	214	107	200	0.0714	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	192	96.1	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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 2617 W MARLAND
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Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 15 @ 2 1/2' (H230333-15)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	2.01	100	2.00	1.70		
Toluene*	<0.050	0.050	01/24/2023	ND	2.08	104	2.00	1.90		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.29	105	6.00	3.85		
Total BTEX	<0.300	0.300	01/24/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/24/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	214	107	200	0.0714	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	192	96.1	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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 HOBBS NM, 88240
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Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 16 @ 2 1/2' (H230333-16)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	2.01	100	2.00	1.70		
Toluene*	<0.050	0.050	01/24/2023	ND	2.08	104	2.00	1.90		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.29	105	6.00	3.85		
Total BTEX	<0.300	0.300	01/24/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/24/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	214	107	200	0.0714	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	192	96.1	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 17 @ 2 1/2' (H230333-17)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	2.01	100	2.00	1.70		
Toluene*	<0.050	0.050	01/24/2023	ND	2.08	104	2.00	1.90		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.29	105	6.00	3.85		
Total BTEX	<0.300	0.300	01/24/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/24/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	214	107	200	0.0714	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	192	96.1	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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Analytical Results For:

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

Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 18 @ 3 1/2' (H230333-18)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	2.01	100	2.00	1.70		
Toluene*	<0.050	0.050	01/24/2023	ND	2.08	104	2.00	1.90		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.29	105	6.00	3.85		
Total BTEX	<0.300	0.300	01/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/24/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	214	107	200	0.0714	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	192	96.1	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 19 @ 2' (H230333-19)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2023	ND	2.01	100	2.00	1.70	
Toluene*	<0.050	0.050	01/24/2023	ND	2.08	104	2.00	1.90	
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.04	102	2.00	2.85	
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.29	105	6.00	3.85	
Total BTEX	<0.300	0.300	01/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	01/24/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	214	107	200	0.0714	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	192	96.1	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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Analytical Results For:

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Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 20 @ 3' (H230333-20)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	2.01	100	2.00	1.70		
Toluene*	<0.050	0.050	01/24/2023	ND	2.08	104	2.00	1.90		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.29	105	6.00	3.85		
Total BTEX	<0.300	0.300	01/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	01/24/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	214	107	200	0.0714	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	192	96.1	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 75.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

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Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 21 @ 3' (H230333-21)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	1.96	97.9	2.00	2.45		
Toluene*	<0.050	0.050	01/24/2023	ND	2.13	107	2.00	2.89		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.10	105	2.00	2.22		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.45	108	6.00	2.24		
Total BTX	<0.300	0.300	01/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/24/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	205	102	200	0.408	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	200	100	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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Analytical Results For:

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

Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 22 @ 3' (H230333-22)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	1.96	97.9	2.00	2.45		
Toluene*	<0.050	0.050	01/24/2023	ND	2.13	107	2.00	2.89		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.10	105	2.00	2.22		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.45	108	6.00	2.24		
Total BTX	<0.300	0.300	01/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	01/24/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	205	102	200	0.408	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	200	100	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 49.1-148

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Analytical Results For:

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

Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 23 @ 2 1/2' (H230333-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	1.96	97.9	2.00	2.45		
Toluene*	<0.050	0.050	01/24/2023	ND	2.13	107	2.00	2.89		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.10	105	2.00	2.22		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.45	108	6.00	2.24		
Total BTEX	<0.300	0.300	01/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 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	01/24/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	205	102	200	0.408	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	200	100	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.2 % 49.1-148

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Analytical Results For:

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

Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 24 @ 3' (H230333-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	1.96	97.9	2.00	2.45		
Toluene*	<0.050	0.050	01/24/2023	ND	2.13	107	2.00	2.89		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.10	105	2.00	2.22		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.45	108	6.00	2.24		
Total BTEX	<0.300	0.300	01/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 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	01/24/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	205	102	200	0.408	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	200	100	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 49.1-148

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Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 1 (H230333-25)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2023	ND	1.96	97.9	2.00	2.45	
Toluene*	<0.050	0.050	01/24/2023	ND	2.13	107	2.00	2.89	
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.10	105	2.00	2.22	
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.45	108	6.00	2.24	
Total BTEX	<0.300	0.300	01/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 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	01/24/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	205	102	200	0.408	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	200	100	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 1 (H230333-26)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	1.96	97.9	2.00	2.45		
Toluene*	<0.050	0.050	01/24/2023	ND	2.13	107	2.00	2.89		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.10	105	2.00	2.22		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.45	108	6.00	2.24		
Total BTX	<0.300	0.300	01/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	01/24/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	205	102	200	0.408	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	200	100	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 25 @ 2 1/2' (H230333-27)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	1.96	97.9	2.00	2.45		
Toluene*	<0.050	0.050	01/24/2023	ND	2.13	107	2.00	2.89		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.10	105	2.00	2.22		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.45	108	6.00	2.24		
Total BTEX	<0.300	0.300	01/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	01/24/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	205	102	200	0.408	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	200	100	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 26 @ 2 1/2' (H230333-28)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	1.96	97.9	2.00	2.45		
Toluene*	<0.050	0.050	01/24/2023	ND	2.13	107	2.00	2.89		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.10	105	2.00	2.22		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.45	108	6.00	2.24		
Total BTEX	<0.300	0.300	01/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/24/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	205	102	200	0.408	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	200	100	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 27 @ 2' (H230333-29)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	1.96	97.9	2.00	2.45		
Toluene*	<0.050	0.050	01/24/2023	ND	2.13	107	2.00	2.89		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.10	105	2.00	2.22		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.45	108	6.00	2.24		
Total BTX	<0.300	0.300	01/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/24/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	205	102	200	0.408	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	200	100	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 75.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 28 @ 2' (H230333-30)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	1.96	97.9	2.00	2.45		
Toluene*	<0.050	0.050	01/24/2023	ND	2.13	107	2.00	2.89		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.10	105	2.00	2.22		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.45	108	6.00	2.24		
Total BTEx	<0.300	0.300	01/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	01/24/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	205	102	200	0.408	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	200	100	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 29 @ 3' (H230333-31)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	1.96	97.9	2.00	2.45		
Toluene*	<0.050	0.050	01/24/2023	ND	2.13	107	2.00	2.89		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.10	105	2.00	2.22		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.45	108	6.00	2.24		
Total BTX	<0.300	0.300	01/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/24/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	205	102	200	0.408	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	200	100	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 30 @ 3' (H230333-32)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	1.96	97.9	2.00	2.45		
Toluene*	<0.050	0.050	01/24/2023	ND	2.13	107	2.00	2.89		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.10	105	2.00	2.22		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.45	108	6.00	2.24		
Total BTX	<0.300	0.300	01/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/24/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	205	102	200	0.408	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	200	100	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 31 @ 3' (H230333-33)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	1.96	97.9	2.00	2.45		
Toluene*	<0.050	0.050	01/24/2023	ND	2.13	107	2.00	2.89		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.10	105	2.00	2.22		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.45	108	6.00	2.24		
Total BTX	<0.300	0.300	01/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/24/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	205	102	200	0.408	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	200	100	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 32 @ 2' (H230333-34)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	1.96	97.9	2.00	2.45		
Toluene*	<0.050	0.050	01/24/2023	ND	2.13	107	2.00	2.89		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.10	105	2.00	2.22		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.45	108	6.00	2.24		
Total BTEX	<0.300	0.300	01/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/24/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	205	102	200	0.408	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	200	100	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 33 @ 2' (H230333-35)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	1.96	97.9	2.00	2.45		
Toluene*	<0.050	0.050	01/24/2023	ND	2.13	107	2.00	2.89		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.10	105	2.00	2.22		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.45	108	6.00	2.24		
Total BTX	<0.300	0.300	01/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	01/24/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	205	102	200	0.408	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	200	100	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/24/2023
 Reported: 01/25/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE

Sampling Date: 01/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 34 @ 2' (H230333-36)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2023	ND	1.96	97.9	2.00	2.45		
Toluene*	<0.050	0.050	01/24/2023	ND	2.13	107	2.00	2.89		
Ethylbenzene*	<0.050	0.050	01/24/2023	ND	2.10	105	2.00	2.22		
Total Xylenes*	<0.150	0.150	01/24/2023	ND	6.45	108	6.00	2.24		
Total BTX	<0.300	0.300	01/24/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/24/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2023	ND	205	102	200	0.408	
DRO >C10-C28*	<10.0	10.0	01/24/2023	ND	200	100	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	01/24/2023	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

Page 154 of 186
Received by QCD: 3/17/2024 3:49:03 PM



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Rush

2 of 34

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																		
Project Manager: <i>Lance Crenshaw</i>				P.O. #:				<div>Chloride TPH (8015M) BTEX (8021B)</div>																		
Address: 2617 W Marland				Company: <i>Merbourne</i>																						
City: Hobbs State: NM Zip: 88240				Attn: <i>Jeff Broom</i>																						
Phone #: (575) 264-9884 Fax #:				Address: <i>4801 Business Pk Blvd</i>																						
Project #: <i>17369</i> Project Owner: <i>Merbourne</i>				City: <i>Hobbs</i>																						
Project Name: <i>Kansas Containment</i>				State: <i>NM</i> Zip: <i>88240</i>																						
Project Location:				Phone #: <i>575-605-6908</i>																						
Sampler Name: <i>Eric Mojica</i>				Fax #:																						
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																
Lab I.D.	Sample I.D.	(GRAB OR C)COMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL:	OTHER:	DATE	TIME												
<i>H230333</i>																										
<i>11</i>	<i>FS 11e 2 1/2'</i>	<i>C</i>	<i>1</i>			<i>✓</i>				<i>✓</i>			<i>1-23-23</i>		<i>✓</i>	<i>✓</i>	<i>✓</i>									
<i>12</i>	<i>FS 12e 2 1/2'</i>	<i>C</i>	<i>1</i>			<i>✓</i>				<i>✓</i>					<i>✓</i>	<i>✓</i>	<i>✓</i>									
<i>13</i>	<i>FS 13e 2 1/2'</i>	<i>C</i>	<i>1</i>			<i>✓</i>				<i>✓</i>			<i>✓</i>		<i>✓</i>	<i>✓</i>	<i>✓</i>									
<i>14</i>	<i>FS 14e 2 1/2'</i>	<i>C</i>	<i>1</i>			<i>✓</i>				<i>✓</i>			<i>✓</i>		<i>✓</i>	<i>✓</i>	<i>✓</i>									
<i>15</i>	<i>FS 15e 2 1/2'</i>	<i>C</i>	<i>1</i>			<i>✓</i>				<i>✓</i>			<i>✓</i>		<i>✓</i>	<i>✓</i>	<i>✓</i>									
<i>16</i>	<i>FS 16e 2 1/2'</i>	<i>C</i>	<i>1</i>			<i>✓</i>				<i>✓</i>			<i>✓</i>		<i>✓</i>	<i>✓</i>	<i>✓</i>									
<i>17</i>	<i>FS 17e 2 1/2'</i>	<i>C</i>	<i>1</i>			<i>✓</i>				<i>✓</i>			<i>✓</i>		<i>✓</i>	<i>✓</i>	<i>✓</i>									
<i>18</i>	<i>FS 18e 3 1/2'</i>	<i>C</i>	<i>1</i>			<i>✓</i>				<i>✓</i>			<i>✓</i>		<i>✓</i>	<i>✓</i>	<i>✓</i>									
<i>19</i>	<i>FS 19e 2'</i>	<i>C</i>	<i>1</i>			<i>✓</i>				<i>✓</i>			<i>✓</i>		<i>✓</i>	<i>✓</i>	<i>✓</i>									
<i>20</i>	<i>FS 20e 3'</i>	<i>C</i>	<i>1</i>			<i>✓</i>				<i>✓</i>			<i>✓</i>		<i>✓</i>	<i>✓</i>	<i>✓</i>									
<small>RELEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																										
Relinquished By: <i>Eric Mojica</i>		Date: <i>1-23-23</i> Time: <i>0915</i>		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:						
Relinquished By:		Date: Time:		Received By:																						
Delivered By: (Circle One)				#113		Sample Condition		CHECKED BY:		Please email results and copy of CoC to pm@etechenv.com.																
Sampler - UPS - Bus - Other:				<i>-8.3c / -8.9c</i>		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		(Initials) <i>[Signature]</i>																		



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

November 16, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: KANSAS CONTAINMENT

Enclosed are the results of analyses for samples received by the laboratory on 11/13/23 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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: 11/13/2023
 Reported: 11/16/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE-EDDY CO

Sampling Date: 11/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NH 1 @ SUR (H236208-01)

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	11/15/2023	ND	1.88	94.2	2.00	0.560	
Toluene*	<0.050	0.050	11/15/2023	ND	2.03	101	2.00	0.857	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.04	102	2.00	0.596	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.20	103	6.00	0.542	
Total BTX	<0.300	0.300	11/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/14/2023	ND	432	108	400	0.00	QR-03	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2023	ND	187	93.5	200	3.09	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	208	104	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.2 % 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: 11/13/2023
 Reported: 11/16/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE-EDDY CO

Sampling Date: 11/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NH 1 @ 1 FT (H236208-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/15/2023	ND	1.88	94.2	2.00	0.560		
Toluene*	<0.050	0.050	11/15/2023	ND	2.03	101	2.00	0.857		
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.04	102	2.00	0.596		
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.20	103	6.00	0.542		
Total BTEX	<0.300	0.300	11/15/2023	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	80.0	16.0	11/14/2023	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	11/15/2023	ND	187	93.5	200	3.09	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	208	104	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 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: 11/13/2023
 Reported: 11/16/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE-EDDY CO

Sampling Date: 11/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EH 1 @ SUR (H236208-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/15/2023	ND	1.88	94.2	2.00	0.560		
Toluene*	<0.050	0.050	11/15/2023	ND	2.03	101	2.00	0.857		
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.04	102	2.00	0.596		
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.20	103	6.00	0.542		
Total BTEX	<0.300	0.300	11/15/2023	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	11/14/2023	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	11/15/2023	ND	187	93.5	200	3.09	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	208	104	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 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: 11/13/2023
 Reported: 11/16/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE-EDDY CO

Sampling Date: 11/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EH 1 @ 1 FT (H236208-04)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/15/2023	ND	1.88	94.2	2.00	0.560		
Toluene*	<0.050	0.050	11/15/2023	ND	2.03	101	2.00	0.857		
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.04	102	2.00	0.596		
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.20	103	6.00	0.542		
Total BTEX	<0.300	0.300	11/15/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/14/2023	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	11/15/2023	ND	187	93.5	200	3.09	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	208	104	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 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: 11/13/2023
 Reported: 11/16/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE-EDDY CO

Sampling Date: 11/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EH 2 @ SUR (H236208-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/15/2023	ND	1.88	94.2	2.00	0.560		
Toluene*	<0.050	0.050	11/15/2023	ND	2.03	101	2.00	0.857		
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.04	102	2.00	0.596		
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.20	103	6.00	0.542		
Total BTEX	<0.300	0.300	11/15/2023	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	11/14/2023	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	11/15/2023	ND	187	93.5	200	3.09	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	208	104	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/13/2023
 Reported: 11/16/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE-EDDY CO

Sampling Date: 11/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EH 2 @ 1 FT (H236208-06)

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	11/15/2023	ND	1.88	94.2	2.00	0.560		
Toluene*	<0.050	0.050	11/15/2023	ND	2.03	101	2.00	0.857		
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.04	102	2.00	0.596		
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.20	103	6.00	0.542		
Total BTX	<0.300	0.300	11/15/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/14/2023	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	11/15/2023	ND	187	93.5	200	3.09	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	208	104	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.4 % 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: 11/13/2023
 Reported: 11/16/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE-EDDY CO

Sampling Date: 11/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EH 3 @ SUR (H236208-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/15/2023	ND	1.88	94.2	2.00	0.560		
Toluene*	<0.050	0.050	11/15/2023	ND	2.03	101	2.00	0.857		
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.04	102	2.00	0.596		
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.20	103	6.00	0.542		
Total BTEX	<0.300	0.300	11/15/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/14/2023	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	11/15/2023	ND	187	93.5	200	3.09	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	208	104	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 79.7 % 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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Analytical Results For:

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

Received: 11/13/2023
 Reported: 11/16/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE-EDDY CO

Sampling Date: 11/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EH 3 @ 1 FT (H236208-08)

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	11/15/2023	ND	1.88	94.2	2.00	0.560		
Toluene*	<0.050	0.050	11/15/2023	ND	2.03	101	2.00	0.857		
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.04	102	2.00	0.596		
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.20	103	6.00	0.542		
Total BTX	<0.300	0.300	11/15/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/14/2023	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	11/15/2023	ND	187	93.5	200	3.09	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	208	104	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.7 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/13/2023
 Reported: 11/16/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE-EDDY CO

Sampling Date: 11/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EH 4 @ SUR (H236208-09)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/15/2023	ND	1.88	94.2	2.00	0.560		
Toluene*	<0.050	0.050	11/15/2023	ND	2.03	101	2.00	0.857		
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.04	102	2.00	0.596		
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.20	103	6.00	0.542		
Total BTEX	<0.300	0.300	11/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/14/2023	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	11/15/2023	ND	187	93.5	200	3.09	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	208	104	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 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: 11/13/2023
 Reported: 11/16/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE-EDDY CO

Sampling Date: 11/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EH 4 @ 1 FT (H236208-10)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/15/2023	ND	1.88	94.2	2.00	0.560		
Toluene*	<0.050	0.050	11/15/2023	ND	2.03	101	2.00	0.857		
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.04	102	2.00	0.596		
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.20	103	6.00	0.542		
Total BTX	<0.300	0.300	11/15/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/14/2023	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	11/15/2023	ND	187	93.5	200	3.09	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	208	104	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 71.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/13/2023
 Reported: 11/16/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE-EDDY CO

Sampling Date: 11/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EH 5 @ SUR (H236208-11)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/15/2023	ND	1.88	94.2	2.00	0.560		
Toluene*	<0.050	0.050	11/15/2023	ND	2.03	101	2.00	0.857		
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.04	102	2.00	0.596		
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.20	103	6.00	0.542		
Total BTEX	<0.300	0.300	11/15/2023	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	64.0	16.0	11/14/2023	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	11/15/2023	ND	187	93.5	200	3.09	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	208	104	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.3 % 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: 11/13/2023
 Reported: 11/16/2023
 Project Name: KANSAS CONTAINMENT
 Project Number: 17369
 Project Location: MEWBOURNE-EDDY CO

Sampling Date: 11/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EH 5 @ 1 FT (H236208-12)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.88	94.2	2.00	0.560	
Toluene*	<0.050	0.050	11/15/2023	ND	2.03	101	2.00	0.857	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	2.04	102	2.00	0.596	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	6.20	103	6.00	0.542	
Total BTX	<0.300	0.300	11/15/2023	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	64.0	16.0	11/14/2023	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	11/15/2023	ND	187	93.5	200	3.09	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	208	104	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 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

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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: Lane Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																																	
Address: 2617 West Marland				Company: Newbourn																																					
City: Hobbs State: NM Zip: 88240				Attn: Jeff Broom																																					
Phone #: (575) 264-9884 Fax #:				Address:																																					
Project #: 17369 Project Owner: Newbourn				City: Hobbs																																					
Project Name: Kansas Containment				State: NM Zip: 88240																																					
Project Location: Eddy County				Phone #:																																					
Sampler Name: Dominic Casarez				Fax #:																																					
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER		ACID/BASE		ICE / COOL		OTHER		DATE		TIME													
H236208																																									
DC 1		NH1 @ SUR		G 1																						11-10															
2		NH1 @ 1ft																																							
3		EH1 @ SUR																																							
4		EH1 @ 1ft																																							
5		EH2 @ SUR																																							
6		EH2 @ 1ft																																							
7		EH3 @ SUR																																							
8		EH3 @ 1ft																																							
9		EH4 @ SUR																																							
10		EH4 @ 1ft																																							
<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 profit 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: [Signature]				Date: 11-13				Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																									
Time: 1630												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: (Initials)				Please email copy of COC and results to pm@etechenv.com.																									
Sampler - UPS - Bus - Other:				3.2c				<input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																													



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.			BILL TO			ANALYSIS REQUEST																																										
Project Manager: Lane Crenshaw			P.O. #:			Chloride TPH (8015M) BTEX (8021B)																																										
Address: 2617 West Marland			Company: Mewbourn																																													
City: Hobbs State: NM Zip: 88240			Attn: Jeff Broom																																													
Phone #: (575) 264-9884 Fax #:			Address:																																													
Project #: 17369 Project Owner: Mewbourn			City: Hobbs																																													
Project Name: Kansas Containment			State: NM Zip: 88240																																													
Project Location: Eddy County			Phone #:																																													
Sampler Name: Dominic Casarez			Fax #:																																													
FOR LAB USE ONLY			MATRIX			PRESERV.			SAMPLING																																							
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP			# CONTAINERS			GROUNDWATER			WASTEWATER			SOIL			SLUDGE			ACID/BASE			ICE / COOL			OTHER			DATE			TIME														
H236208				G			C																					11-10																				
DC 11		EHS @ SUR		1			1																																									
12		EHS @ 1ft		1			1																																									
				1			1																																									
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Appendix F

Regulatory Correspondence

From: [Lance Crenshaw](#)
To: [Enviro, OCD, EMNRD](#)
Cc: [Ben Arquijo](#); jbroom@mewbourne.com; [Connor Walker](#); [Joel Lowry](#)
Subject: Confirmation Sampling Notification
Date: Tuesday, January 17, 2023 9:07:14 AM

This email serves as notice that Etech intends to collect excavation confirmation soil samples on January 20 through January 23 from the following locations/reportable release sites:

Mewbourne Oil Co –Kansas Containment- napp2231362043

If you have any questions or need any additional information, please contact Lance Crenshaw by phone (575-631-2532) or email lance@etechenv.com.

Lance Crenshaw
Etech Environmental & Safety Solutions
575-631-2532

Ben Arguijo

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Tuesday, January 17, 2023 8:43 AM
To: Ben Arguijo
Cc: Connor Walker; Jeff Broom; Lance Crenshaw; Joel Lowry; Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD; Harimon, Jocelyn, EMNRD
Subject: (Extension Approval) nAPP2231362043 - Kansas 28/33 W0AP Fed Com #1H Battery Transfer Pump
Categories: NMOCD

You don't often get email from robert.hamlet@emnrd.nm.gov. [Learn why this is important](#)

RE: Incident #**NAPP2231362043**

Ben,

Your request for an extension to **February 15th, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Ben Arguijo <bena@etechenv.com>
Sent: Monday, January 16, 2023 3:05 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Connor Walker <cwalker@mewbourne.com>; Jeff Broom <jbroom@mewbourne.com>; Lance Crenshaw <lance@etechenv.com>; Joel Lowry <joel@etechenv.com>
Subject: [EXTERNAL] nAPP2231362043 - Kansas 28/33 W0AP Fed Com #1H Battery Transfer Pump - Extension Request

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Dear NMOCD Environmental Bureau,

Mewbourne Oil Company (Mewbourne) recently contracted Etech Environmental & Safety Solutions, Inc. (Etech), to conduct remediation activities for the release known as the Kansas 28/33 W0AP Fed Com #1H Battery Transfer Pump (NMOCD Incident # nAPP2231362043) located in Eddy County. Pursuant to NMOCD regulations, a work plan or closure report is due for the release on January 23, 2023.

While Etech has initiated said remediation activities, access to portions of the affected area have been hindered by the presence of third-party work crews at the location, and Etech has not been able to perform a complete assessment of the site and/or fully delineate the release. In consideration of this information, Etech, on behalf of Mewbourne, would like to request a short extension until February 15, 2023 (i.e., 30 days from today), in order to allow time for Etech to complete the site assessment, fully delineate the release, and devise an appropriate remediation strategy to advance the site to an NMOCD-approved closure.

If you have any questions or need any additional information, please do not hesitate to contact me by phone or email.

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: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Friday, November 3, 2023 2:58 PM
To: Connor Walker <cwalker@mewbourne.com>
Subject: [EXT] The Oil Conservation Division (OCD) has rejected the application, Application ID: 228286

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#) nAPP2231362043, for the following reasons:

- **Deferral denied. Per 19.15.29.12(C)2 NMAC, a "deferral may be granted so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment, or groundwater." The horizontal extent of the release in the "deferral area" was not fully delineated by DFS 9. Mewbourne has until 2/1/2024 to delineate the horizontal extent of the release and submit laboratory analyses along with another deferral request and/or closure report.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 228286.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Shelly Wells
Environmental Specialist-A
505-469-7520
Shelly.Wells@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: [Wells, Shelly, EMNRD](#)
To: [Tamarah Kendrick](#); [Wells, Shelly, EMNRD](#)
Cc: [Lance Crenshaw](#); [Conner Walker \(cwalker@mewbourne.com\)](#); [Ben Arguijo](#); [Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] nAPP2231362043 - Kansas 28/33 W0AP Fed Com #1H Battery Transfer Pump - Sampling notification - Mewbourne Oil Company
Date: Tuesday, November 7, 2023 10:13:22 AM
Attachments: [image001.png](#)

Good morning Tamarah,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

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: Tamarah Kendrick <tamarah@etechenv.com>
Sent: Tuesday, November 7, 2023 9:05 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Lance Crenshaw <lance@etechenv.com>; Conner Walker (cwalker@mewbourne.com) <cwalker@mewbourne.com>; Ben Arguijo <bena@etechenv.com>
Subject: [EXTERNAL] nAPP2231362043 - Kansas 28/33 W0AP Fed Com #1H Battery Transfer Pump - Sampling notification - Mewbourne Oil Company

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

This email serves as notice Etech intends to begin confirmation sampling for the following reportable release site beginning 11/10/2023.

nAPP2231362043 - Kansas 28/33 W0AP Fed Com #1H Battery Transfer Pump

Anticipated sampling time will be at 7:00 AM.

Confirmation sampling will continue throughout the remediation process as required and/or necessary.

If you have any questions or need any additional information, please feel free to contact Lance Crenshaw by phone or email:

Lance Crenshaw
Etech Environmental
Phone 575-631-1064
lance@etechenv.com

Tamarah Kendrick

Project Coordinator

ETech - Environmental and Safety Solutions

2617 W. Marland Blvd

Hobbs, NM 88240



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QUESTIONS

Action 321133

QUESTIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 321133
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2231362043
Incident Name	NAPP2231362043 KANSAS 28/33 W0AP FED COM #1H BATTERY TRANSFER PUM @ 0
Incident Type	Produced Water Release
Incident Status	Deferral Request Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	KANSAS 28/33 W0AP FED COM #1H BATTERY TRANSFER PUM
Date Release Discovered	10/26/2022
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	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pump Produced Water Released: 780 BBL Recovered: 775 BBL Lost: 5 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)	A drain plug on the discharge of a water transfer pump failed. The pump was inside secondary containment which held 770 bbls of the release, all of which was recovered. The remaining 10 bbls was sprayed over containment, 5 of which was recovered.

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QUESTIONS, Page 2

Action 321133

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:
	14744
	Action Number:
	321133
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

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.
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: 03/07/2024
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QUESTIONS, Page 3

Action 321133

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	321133
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	Estimate or Other
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 100 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 500 and 1000 (ft.)
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	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 100 (ft.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	42000
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	3287
GRO+DRO	(EPA SW-846 Method 8015M)	2470
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.3
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.1

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	01/16/2023
On what date will (or did) the final sampling or liner inspection occur	11/10/2023
On what date will (or was) the remediation complete(d)	02/03/2023
What is the estimated surface area (in square feet) that will be reclaimed	28457
What is the estimated volume (in cubic yards) that will be reclaimed	2582
What is the estimated surface area (in square feet) that will be remediated	21057
What is the estimated volume (in cubic yards) that will be remediated	920

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 321133

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	321133
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Yes
In which state is the disposal taking place	TX
What is the name of the out-of-state facility	R360 Red Bluff Facility
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 03/07/2024
--	---

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 321133

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	321133
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	The release is under a series of piping and separation equipment that would need to be completely removed and reinstalled to remediate the area.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	7400
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	548
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (F#) on which this deferral should be granted	KANSAS 28/33 W0AP FED COM #1H BATTERY [APP2126046386]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 03/07/2024

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QUESTIONS, Page 6

Action 321133

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:
	14744
	Action Number:
	321133
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	310459
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/17/2023
What was the (estimated) number of samples that were to be gathered	53
What was the sampling surface area in square feet	21057

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	No
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CONDITIONS

Action 321133

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 321133
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scwells	Area around tank battery represented by sample ID's DFS 1 through DFS 8 approved for deferral. Site will need to be remediated and then reclaimed at time of a major facility deconstruction or at plugging and abandonment, whichever comes first.	3/18/2024