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Oil Conservation Division

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Incident ID	nAPP2231362043
District RP	
Facility ID	
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# 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?	🗌 Yes 🖌 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🖌 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)?	🗌 Yes 🖌 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🖌 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?	🗌 Yes 🖌 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🖌 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🖌 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🖌 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🖌 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🖌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🖌 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🖌 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.

#### Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ✓ Field data
- Data table of soil contaminant concentration data
- $\checkmark$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- Boring or excavation logs
- ✓ Photographs including date and GIS information
- ✓ Topographic/Aerial maps
- ✓ 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.

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regulations all operators are r public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name: <u>Connor W</u>		tifications and perform co OCD does not relieve the eat to groundwater, surfa f responsibility for comp 	orrective actions for rele e operator of liability sho ace water, human health liance with any other feo	ases which may endanger ould their operations have or the environment. In deral, state, or local laws			
OCD Only							
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Application ID	

# **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 con	nfirmed 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	n, 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:								

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# 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

n J. Arguijo

Lance Crenshaw



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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- Appendix A Depth to Groundwater Information
- Appendix B Field Data & Soil Profile Log
- Appendix C Photographic Log
- Appendix D Multimedia Exposure Assessment Model (MULTIMED)
- Appendix E Laboratory Analytical Reports
- Appendix F Regulatory Correspondence

### 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:

Latitude:	32.20	35980	Longitude:	-1	-104.085857				
Provided GPS are in WGS84 format.									
Site Name: Kan									
Date Release Disco	overed:	10/26/2022	API # (if applic	able):	N/A				
Unit Letter	Section	Township	County						
"H"	21	24S	28E	Eddy					
Surface Owner:	State		X Private (Nan nd Volume of F	· · · ·	rtesian Conservancy Distri				
Crude Oil	Volum	e Released (bbls)		Volume Recovere	d (bbls)				
X Produced Wa	ter Volum	e Released (bbls)	780	Volume Recovere	Volume Recovered (bbls) 775				
		oncentration of total n the produced water		X Yes No N/A					
Condensate	Volum	e Released (bbls)		Volume Recovere	ne Recovered (bbls)				
Natural Gas	Volum	e Released (Mcf)		Volume Recovere	Volume Recovered (Mcf)				
Other (describ	be) Volum	e/Weight Released		Volume/Weight R	ecovered				
	e discharge ols of the rele	eovered.			ondary containment, prayed over containment,				
		is been stopped.	man haalth and the -	nvinannant					
		secured to protect hun contained via the use			containment devices				
X Release mater	ais nave beel	i containeu via the use		aged appropriately.	containment devices				

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?	Yes	X No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes	X 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?	Yes	X No		
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	Yes	X 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?	Yes	X No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes	X No		
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes	X No		
Are the lateral extents of the release within 300 feet of a wetland?	Yes	X No		
Are the lateral extents of the release overlying a subsurface mine?	Yes	X No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes	X No		
Are the lateral extents of the release within a 100-year floodplain?	Yes	X No		
Did the release impact areas not on an exploration, development, production or storage site?	Yes	X 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*‡
	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	600	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	100	100
30'	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 @ 2', 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 @ 3', 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

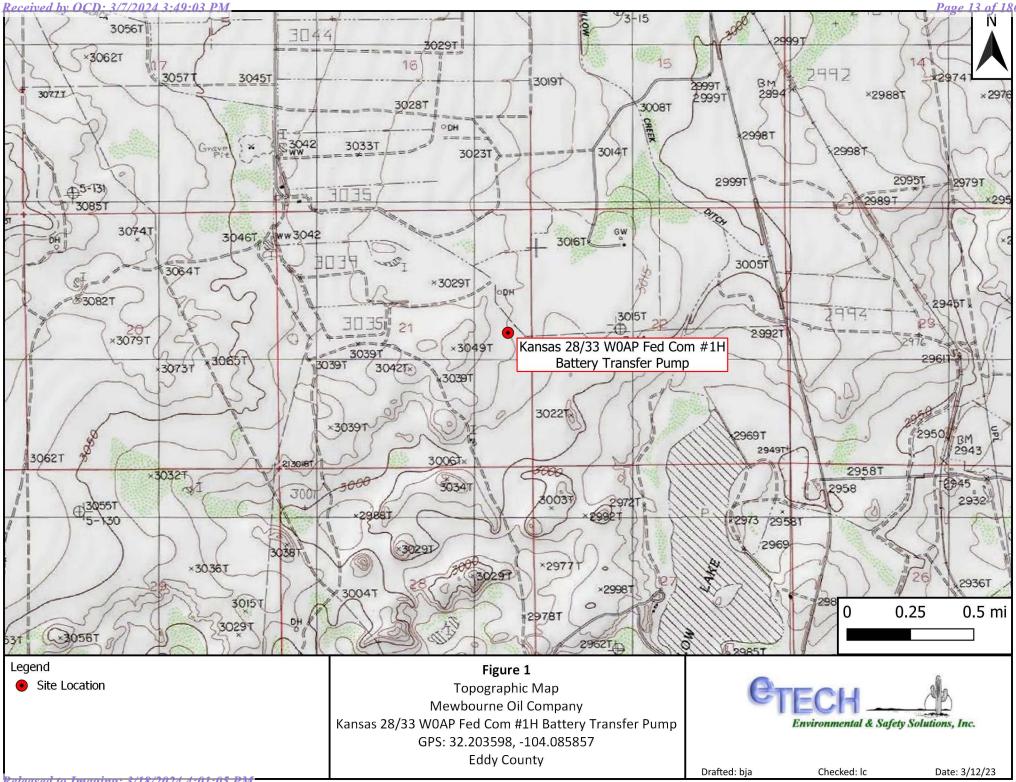
4801 Business Park Blvd. Hobbs, NM 88240

### New Mexico Energy, Minerals and Natural Resources Department

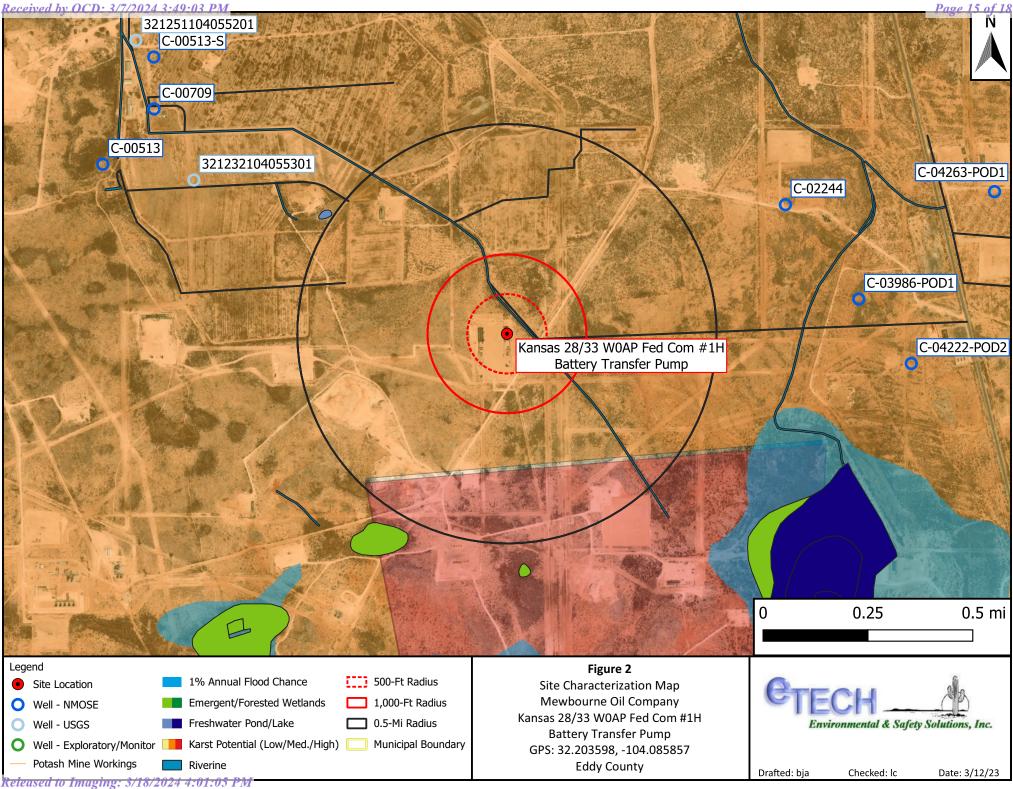
*Oil Conservation Division, District 2* 811 S. First Street Artesia, NM 88210

(Electronic Submission)

# Figure 1 Topographic Map



# Figure 2 Site Characterization Map

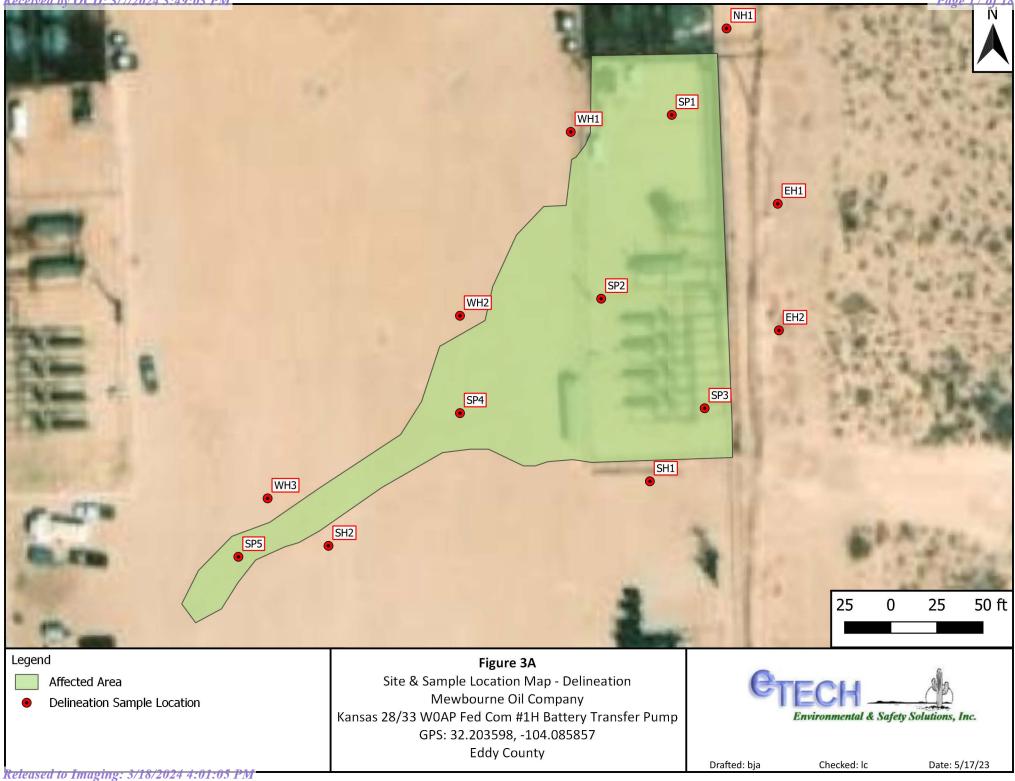


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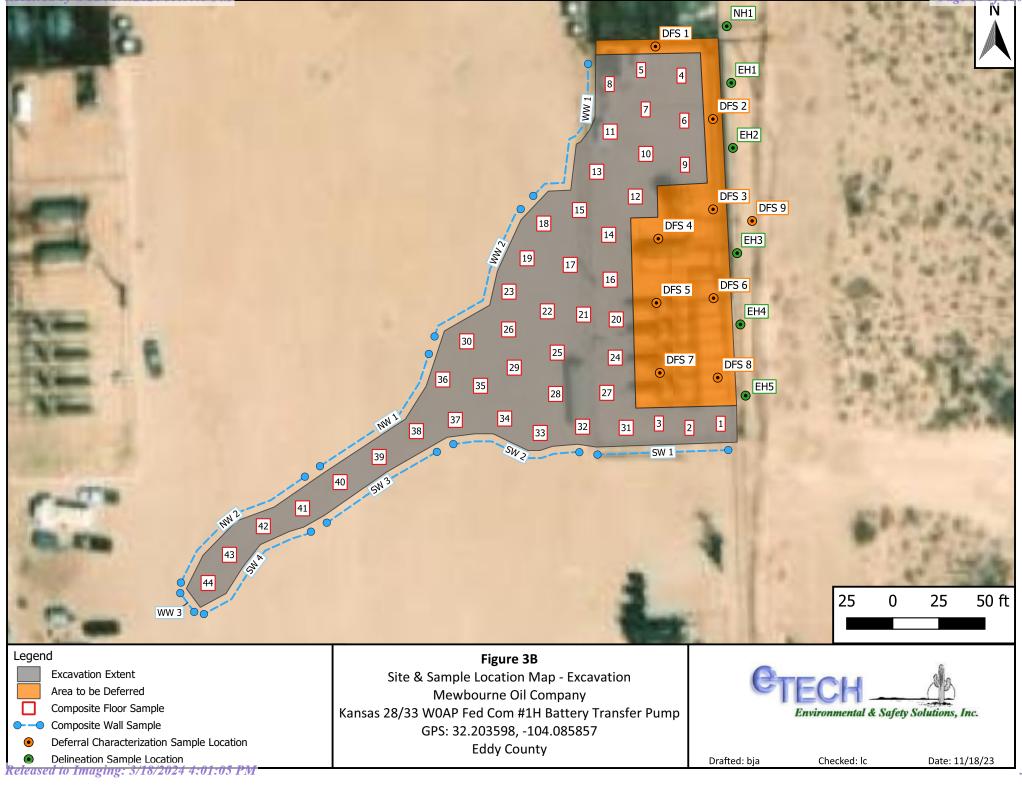
# Figures 3A & 3B Site & Sample Location Maps

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# Table 1Concentrations 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											
		IXan			ef. #: nAP	•		ump			
NMOC	CD Closure Crit	eria		10	50	N/A	N/A	N/A	N/A	100	600
NMOCD	<b>Reclamation St</b>	andard		10	50	N/A	N/A	N/A	N/A	100	600
				SW 84	5 8021B		SW	846 8015M	Ext.		4500 Cl
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
DFS 1 @ Surface	1/20/2023	0	Deferral	<0.050	erral Charac	<10.0	1,820	1,820	966	2,790	17,000
DFS 1 @ 3ullace	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 @ Surface 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 2 @ 2 DFS 3 @ Surface	1/20/2023	0	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<b>21,400</b>
DFS 3 @ Surface	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	<b>3,290</b>	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	< <u>30.0</u> 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 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
				Ex	cavation Sam	ples			-		
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		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. Released to Imaging: 3/18/2024 4:01:05 PM

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Table 1												
	<b>Concentrations of BTEX, TPH &amp; Chloride in Soil</b>											
					urne Oil C	• •						
		Kans				•	Transfer 1	Pump				
			NI		ef. #: nAP				1	1		
	OCD Closure Cri			10	50	N/A	N/A	N/A	N/A	100	600	
NMOC	D Reclamation St	andard	-	10	50	N/A	N/A	N/A	N/A	100	600	
				SW 84	5 8021B		SW	846 8015M			4500 Cl	
Sample ID	Date	Depth (Feet)	Soil Status	Benzene	BTEX	GRO	DRO	DRO	ORO	ТРН С6-С36	Chloride	
		(1 cct)		(mg/kg)	(mg/kg)	C <sub>6</sub> -C <sub>10</sub> (mg/kg)	C <sub>10</sub> -C <sub>28</sub> (mg/kg)	C6-C28	C <sub>28</sub> -C <sub>36</sub> (mg/kg)	(mg/kg)	(mg/kg)	
SW 4	1/19/2023	0.5-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	(mg/kg) <20.0	<10.0	<30.0	288	
WW 1	1/23/2023	0.5-2	In-Situ In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144	
WW 2		0.5-2.5	In-Situ In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448	
WW 3		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' FS 17 @ 2 1/2'	1/23/2023	2.5 2.5	In-Situ	<0.050	<0.300	<10.0 <10.0	<10.0	<20.0	<10.0	<30.0 <30.0	80.0 80.0	
FS 17 @ 2 1/2 FS 18 @ 3 1/2'	1/23/2023 1/23/2023	2.5 3.5	In-Situ In-Situ	<0.050 <0.050	<0.300 <0.300	<10.0	<10.0 <10.0	<20.0 <20.0	<10.0 <10.0	<30.0	80.0	
FS 19 @ 2'	1/23/2023	2	In-Situ 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 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	

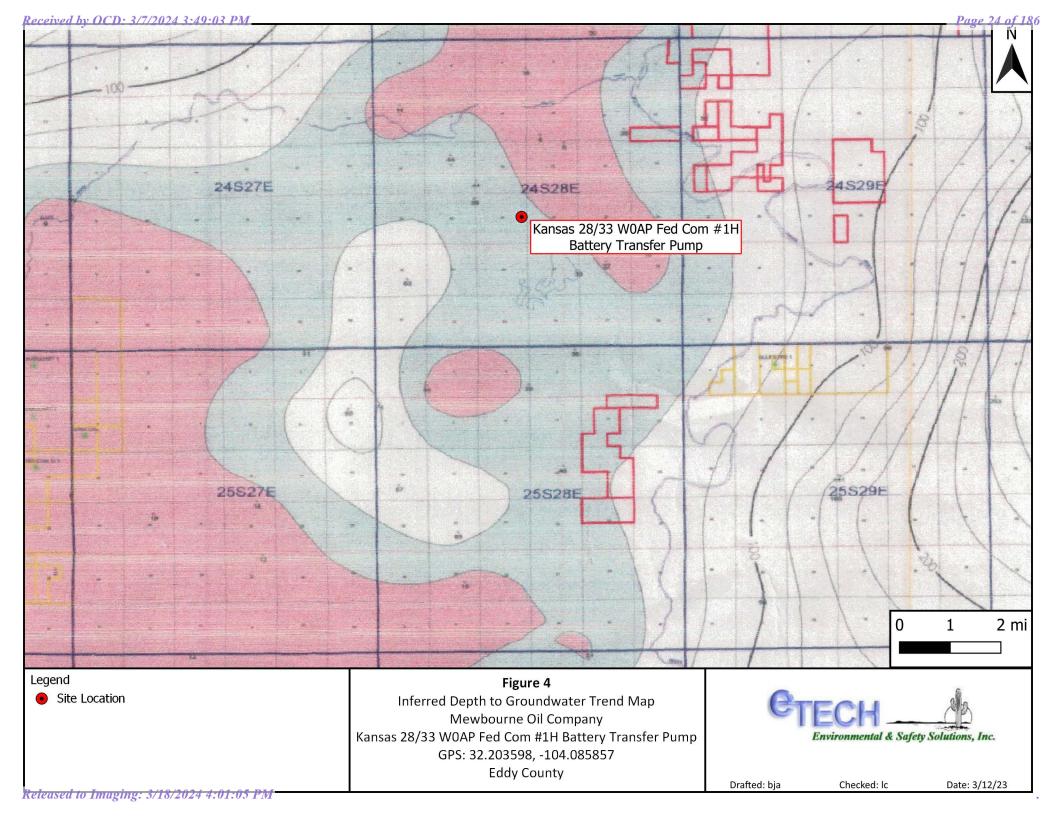
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Table 1         Concentrations of BTEX, TPH & Chloride in Soil         Mewbourne Oil Company         Kansas 28/33 W0AP Fed Com #1H Battery Transfer Pump         NMOCD Ref. #: nAPP2231362043         NMOCD Closure Criteria       10       SN/A       N/A       N/A       N/A												
NMOCD	Reclamation St		10	50	N/A	N/A	N/A	N/A	100	600		
				SW 840	5 8021B		SW	846 8015M	Ext.		4500 Cl	
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C6-C36 (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	

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# Appendix A Depth to Groundwater Information





(A CLW##### in the POD suffix indicates the POD has been	(R=POD been rep O=orpha	placed,													
replaced & no longer serves a water right	C=the fil	e is								IE 3=SW 4	4=SE)				
file.)	closed)	0.10		``	quai arge		s are	e sma	illest to		IAD83 UTM in n	neters)	(In fe	eet)	
		POD		~	_	~						,			
POD Number	Code	Sub-	County		Q ( 16		er '	Twe	Rna	х	Y	DistanceDept	hWellDen		ater
<u>C 02244</u>	Code	C	LE	3				24S	28E	587224		1177	260	inwateroor	unn
C 03986 POD1		CUB	ED	3	4	2 2	22	24S	28E	587505	3563502 🌍	1356	170	120	50
C 04222 POD2		CUB	ED	1	2	4 2	22	24S	28E	587707	3563255 🌍	1555	100	40	60
<u>C 00709</u>		С	ED	3	3	3 1	16	24S	28E	584802	3564232* 🌍	1605			
											Aver	age Depth to Wat	er:	80 fee	t
												Minimum Dept	:h:	40 fee	t
												Maximum Dept	h:	120 fee	t
Record Count:4															
UTMNAD83 Radiu	is Search	( <u>in mete</u>	ers):												
Easting (X): 58	6155.93		North	ning	(Y)	: 3	5633	369.6	6		Radius: 1610				
*UTM location was derive	ed from PL	SS - see	Help												
The data is furnished by th concerning the accuracy, c												OSE/ISC make no	warranties, e	expressed or in	nplied,

WATER COLUMN/ AVERAGE DEPTH TO WATER



Well Tag POD Number C 02244	Q64 Q16 Q4 Sec Tws Rng	983 UTM in meters) X Y 2224 3563865* 🔵
Driller License: 421 Driller Name: CORKY GLENN	Driller Company: GLENN'S WATE	ER WELL SERVICE
Drill Start Date:01/03/1992Log File Date:01/14/1992Pump Type:Casing Size:	Drill Finish Date:01/03/1992PCW Rcv Date:Pipe Discharge Size:Depth Well:260 feet	Plug Date: Source: Estimated Yield: 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.



			· ·			2=NE 3= lest to larg		,	M in meters)	
Well Tag	POD	Number	•••			ec Tws	,	X	Y	
NA	C 0	3986 POD1	3			2 24S	-	587505	3563502 🍯	
Driller Lice	ense:	1690	Driller	Comj	pany	: VIS	SION F	RESOURCE	S, INC	
Driller Nar	ne:	MALEY, JASON								
Drill Start	Date:	01/09/2017	Drill Fi	nish	Date	: 0	1/10/2	017 <b>Pl</b>	ug Date:	
Log File D	ate:	01/16/2017	PCW F	lcv Da	ate:			Sc	ource:	Shallow
Pump Typ	e:		Pipe D	ischa	rge S	Size:		Es	timated Yie	ld:
Casing Siz	ze:	6.00	Depth	Well:		1	70 fee	t De	epth Water:	120 feet
	Wate	er Bearing Stratifi	cations:		Тор	Bottom	n Des	cription		
					120	150	) San	dstone/Grav	vel/Conglome	erate
					155	170	) San	dstone/Grav	vel/Conglome	erate
		Casing Perfe	orations:		Тор	Bottom	1			
					90	170	)			

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.



			· ·	s are 1=l				,		
				ers are sr		0	,	`	M in meters)	
Well Tag	POD	Number	Q64 G	16 Q4	Sec	Tws	Rng	X	Y	_
NA	C 0	4222 POD2	1	2 4	22	24S	28E	587707	3563255	<b></b>
Driller Lic	ense:	1706	Driller (	Compa	ny:	ELI	TE DR	ILLERS CO	ORPORATIO	ON
Driller Na	me:	BRYCE WALLA	CE							
Drill Start	Date:	05/29/2018	Drill Fir	nish Da	te:	0	5/30/20	018 <b>Pl</b>	ug Date:	
Log File D	ate:	07/05/2018	PCW R	cv Date	):			Sc	ource:	Shallow
Pump Typ	e:		Pipe Di	scharg	e Siz	e:		Es	timated Yi	<b>eld:</b> 50 GPM
Casing Si	ze:	9.30	Depth V	Vell:		1	00 feet	De	epth Water	: 40 feet
	Wate	r Bearing Strati	fications:	То	рΒ	ottom	Desc	cription		
				2	8	70	Othe	er/Unknown		
				8	5	100	Lime	stone/Dolo	mite/Chalk	
		Casing Per	forations:	То	рВ	ottom	1			
				6	0	100				

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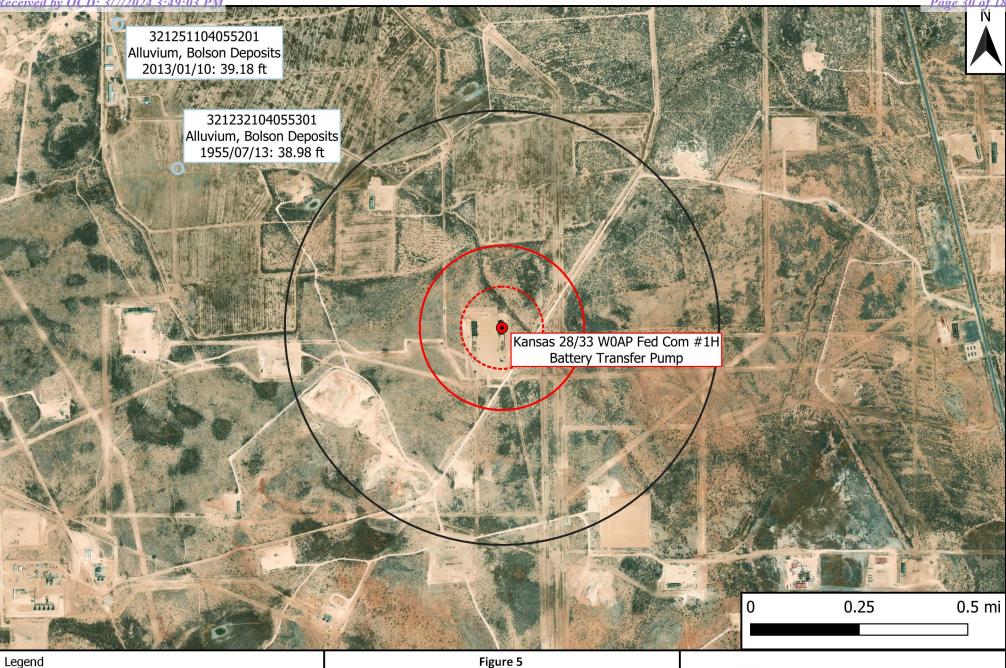


	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (N/	AD83 UTM in meters)
Well Tag POD Number	Q64 Q16 Q4 Sec Tws Rng	ХҮ
C 00709	3 3 3 16 24S 28E 58	34802 3564232* 🥥
Driller License: 30	Driller Company: BARRON, EM	METT
Driller Name: EMMETT BARF	RON	
Drill Start Date: 05/17/1956	Drill 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:

\*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.





- Site Location
- O Well USGS
- 500-Ft Radius
- 1,000-Ft Radius
- D.5-Mi Radius

Released to Imaging: 3/18/2024 4:01:05 PM

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



Drafted: bja

Checked: lc

Date: 3/12/23

✓ GO

Groundwater

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USGS Water Resources

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Groundwater levels for the Nation

• 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 aguifers (N9999OTHER) national aguifer. 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			А
1955-07-13		D	72019	38.98			1	Z			А

#### Received by OCD: 3/7/2024 3:49:03 PM

		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	А	Approved for publication Processing and review completed.

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Page Contact Information: USGS Water Data Support Team Page Last Modified: 2023-05-03 14:06:59 EDT 0.29 0.24 nadww01





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Click forNews Bulletins

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

#### Search Results -- 1 sites found

Agency code = usgs site no list =

• 321251104055201

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### 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				А
1955-12-14		D	72019	43.50			1	Z				А
1998-01-27		D	72019	40.36			1	S				А
2003-02-04		D	72019	45.05			1	S	USGS	S		А
2013-01-10	22:15 UTC	m	72019	39.18			1	S	USGS	S		А

### Released to Imaging: 3/18/2024 4:01:05 PM

		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	А	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?



Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2023-05-03 14:04:01 EDT 0.3 0.24 nadww01

# **Appendix B Field Data & Soil Profile Logs**



Sample Log

Date:

1-12-23

Project: Kansas Contain Project Number:	17369	Latitude:	32.20212	Longitude:	-104.085723
Sample ID	PID/Odor	F	Chloride Conc.		GPS
& Ple Surf.		2.624			
dP/e/ed	-	60402	552		
Sple Surf.	-	6.468			
SPZelez'ez'	-	604 02	660.3.260		
8P3ª durt.	-	6468			
SP30/e2e3e4		196802	122003 60	404368	
11 H le Surt.	-	228			

H / e Surf.	-	228	-
CH O Junk	-	148	
Hel.	-	200	
Aze Surf.	-	148	
Hael	-	228	
HIe Surf-	-	260	
A/e/'	-	228	
H/c durf.	-	232	
14/0/	-	292	
Haedurf.	-	328	
Plel		328 - 292 1840	
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Sample Point = SP #1 @ ## etc	1	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 Area

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Samp	le	Log
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Date:

Project: Kansas Containment 17369

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Latitude: 32.20212

Longitude: -104.085723

1-16-23

Sample ID	PID/Odor	Chloride Conc.	GPS
FS/e3		328	-
FS2e3	-	408	
FS 3e 3'	-	408	
SWI ES4e2		552	
1 - 1 - 6		292 452	
FS5=21/2	-	452	
FS6e21/2 ,		452	
FS 70 21/2 431/2	-	452	
FS 8e 21/2		228	
FSgeall	-	292	
FS 10e21/2'	-	260 452 452 408	
FSILeals	-	452	
FSIZeziz	-	452	
FS 130 21/2	-	408	
FS 14021/2	-	4.52	
FS15e21/2	-	260	
FS 160 2 1/2	-	552	
FSITealla		368	
FS 180212:031/2	-	368 844 03 1/0 328	
FS19e2'	-	552	
FS20e2e3 FS21e3	-	328	
FS 21e3		328	
FS 2203	-	408	
FS22e3 FS23e21/2	-	408	
	-	452	
FS 24 . 3'	-	368	
FS 24 . 3' FS 25 @ 21/2'		500	
FS2heala		500 292	
FS28°2'	-	260	
FS2802'	-	552	
FS29e2'e3'	-	716 03 552	
FS 30 e2'.3	-	660e3 172	
FS3le2e3	-	71603 228	
FS32e2'	-	328	
WW2		780.660.228	
SW2		804-660.408	
Sample Point = SP #1 @ ## etc		Test Trench = TT #1 @ ##	Resamples= SP #1 @ 5b or SW #1b
		Refusal = SP #1 @ 4'-R	Stockpile = Stockpile #1
Sidewali = SW #1 etc		Soil Intended to be Deferred = SP #1 @ 4' In-Situ	GPS Sample Points, Center of Comp Area
Floor = FL #1 etc Sidewail = SW #1 etc			

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Received by OCD: 3/7/2024

Sample Log

Project: Kansas Containment Project Number: 17369

Latitude: 32.1220212 Longitude: -104.085723

1-18-23 Date:

Sample ID	PID/Odor	Chloride Conc.	GPS
Be 2'	-	368	
34e 2°		452	
35e2'		408	
36e2 = 21/2		780-21/2 292	
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- FS 39e2	-	260	
+ FS 39ed + 0 = 2'e 3 + 1 = 2' + 2 = 2' + 2 = 2 /2' + 2 = 2 /2' + 4 = 2 - 2 - 2 	-	780. Pes 368	
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+302 221/2	Ciminant-	552 604 ~ 368 452 605 · 552	99. and a second s
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Resamples= SP #1 @ 5b or SW #1b

Floor = FL #1 etc

Sidewall = SW #1 etc

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

Stockpile = Stockpile #1 GPS Sample Points, Center of Comp Areas

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Sample Log

Date:

Project: Kansar Containment Project Number:

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17369

Latitude: 3220212 Longitude: -104.085723

1-20-23

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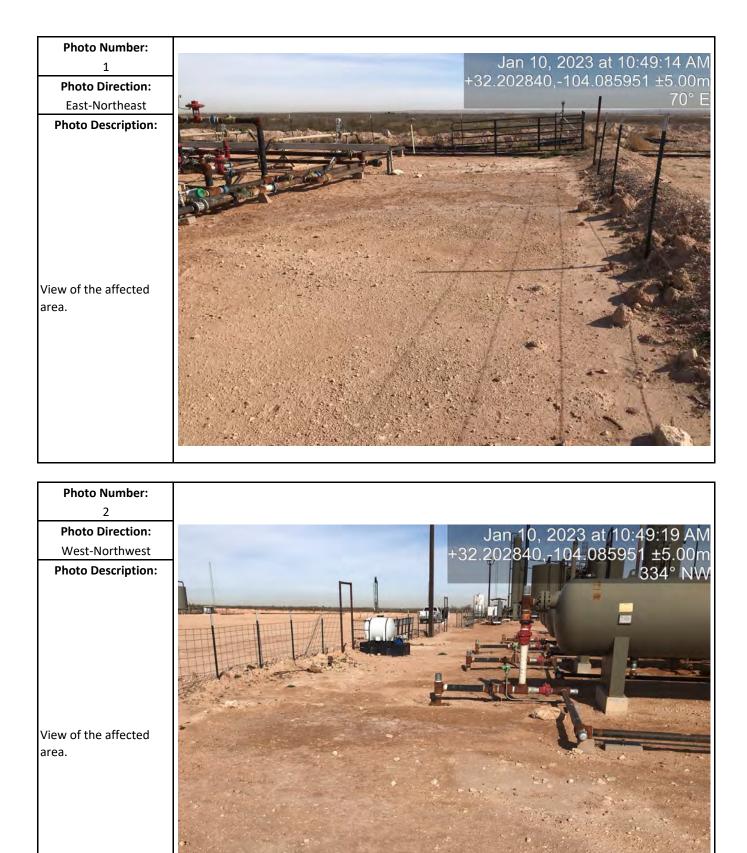


# Soil Profile

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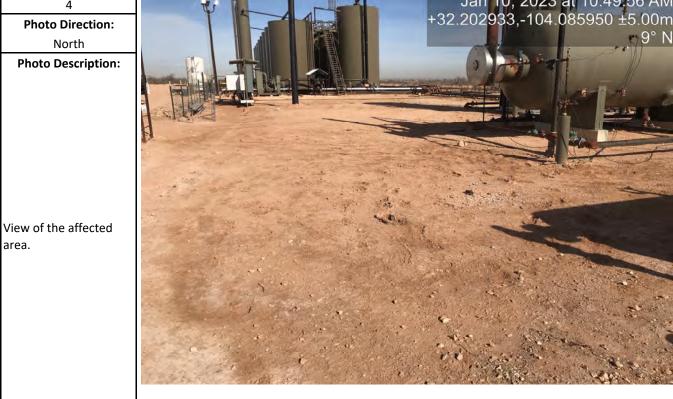
44 s

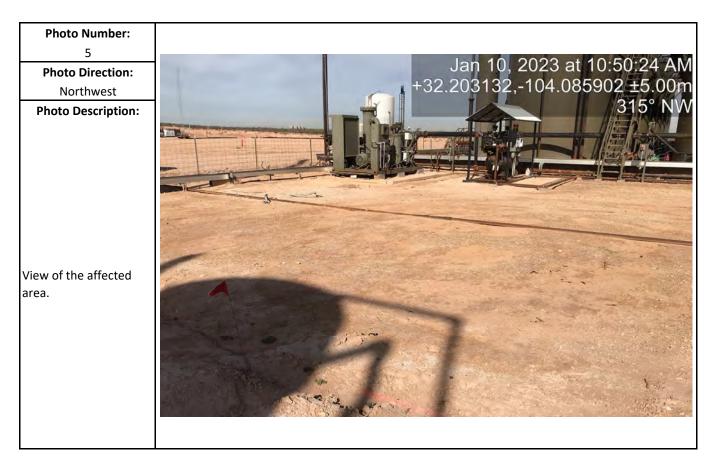
# Appendix C Photographic Log

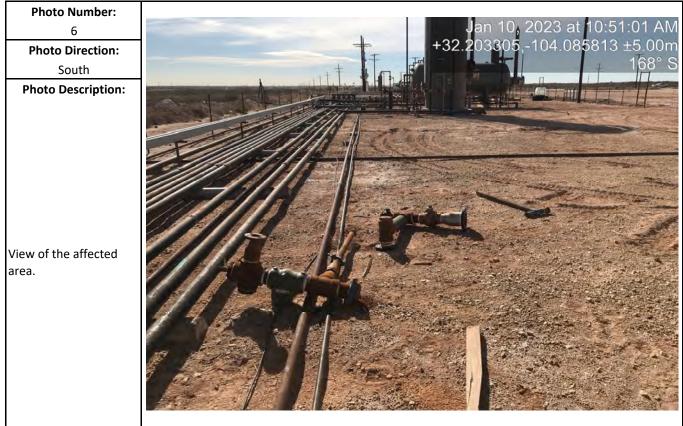


# Photographic Log









# Photographic Log





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Photo Number:	
9	
Photo Direction:	
East-Northeast	1/16/23, 7:24 AM
Photo Description: View of the excavated area.	1/16/23, 7:24 AM +32,203202, 104,085913 ±5 00m 62° NE

Photo Number:	
10	
Photo Direction:	
South	14 6/28_7.24 AM
Photo Description:	+32.203202, 104.085913-15 00m
View of the excavated area.	

Photo Number:	
11	
Photo Direction:	
South	1/16/23, 7.25 AM
Photo Description: View of the excavated area.	B2.203094104.085935.45 00m

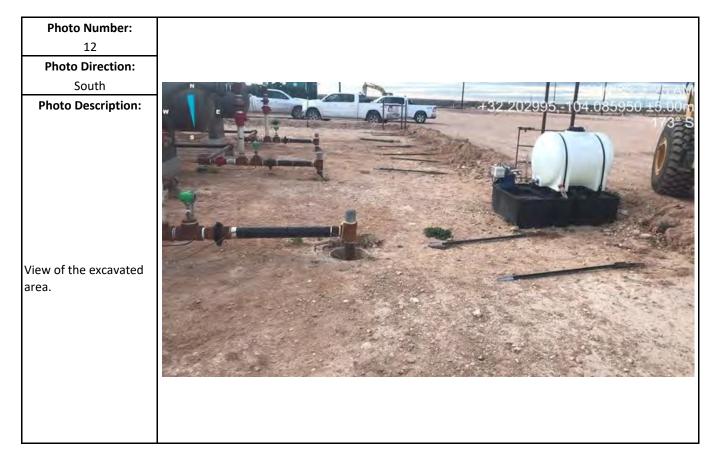
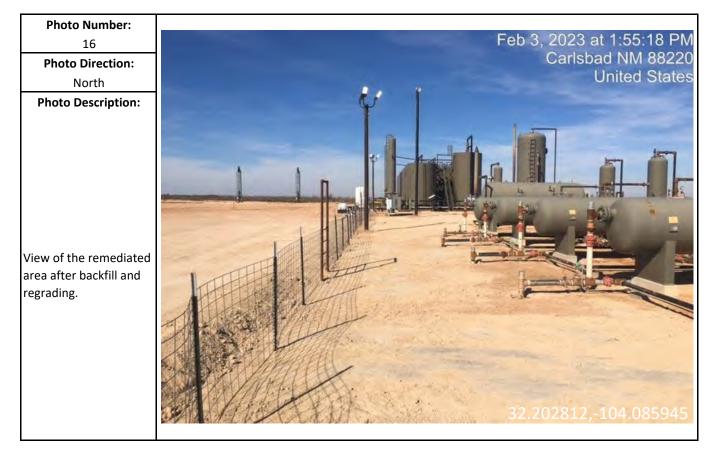


Photo Number:	
13	-
Photo Direction:	
Northeast	1/16/23, 7:29 AM
Photo Description:	+32.203246,-104.086427 ±65:00 m
View of the excavated area.	54° NE



# Photographic Log

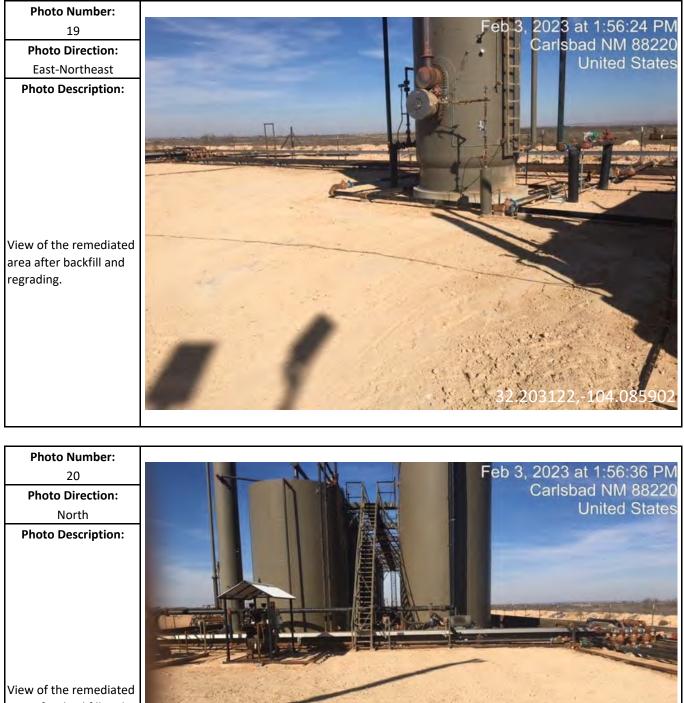
	T C C C C C C C C C C C C C C C C C C C
Photo Number:	
15	
Photo Direction:	
North-Northwest	1/ 6/23. 8:43 AM
Photo Description: View of the excavated area.	1/6/23, 8:43 AM +32:203156,-104.086502 ±65,00m 347* N



# Photographic Log

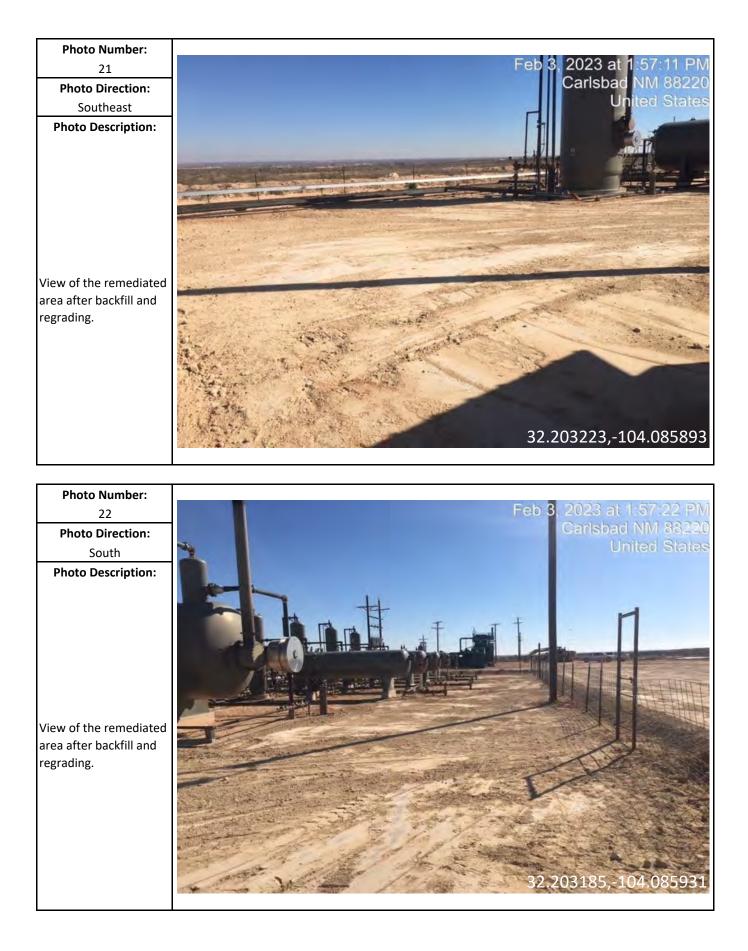






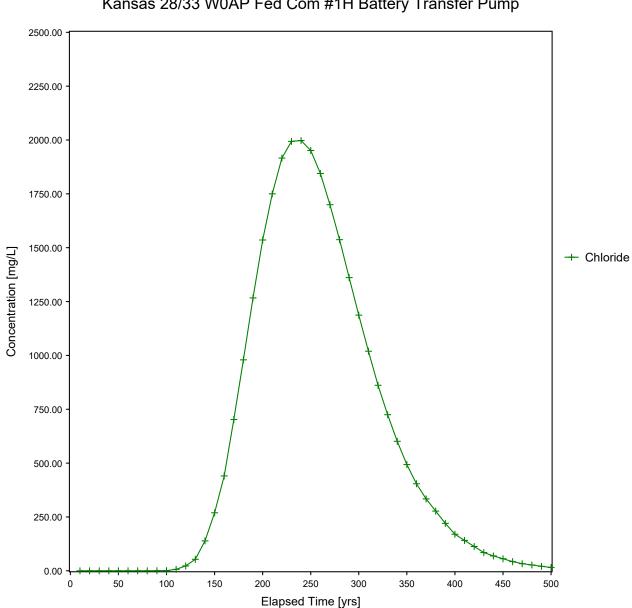
area after backfill and regrading.





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# 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

Received by OCD: 3/7/2024 3:49:03 PM

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MULTIMED V1.01 DATE OF CALCULATIONS: 12-JUN-2023 TIME: 16:38:21
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11021211120 12.02	DITE OF OT	100114110113. 12 0011 2023 1	1111. 10.00.21	
Rele	U.S.	ENVIRONMENTA	L PROTECTION	AGENCY
ased.		EXPOSURE	ASSESSMENT	
to Im		MULTIME	DIA MODEL	
agin		MULTIMED (Vers	ion 1.50, 2005)	
Released to Imaging: Released to Imaging: Reveloptions  Millions Kansas 28/33 WOAP	pany Fed Com #1H E	Battery Transfer Pump		
Chemical simulated	d is Chloride			
Option Chosen Run was Infiltration Speci Run was transient Well Times: Entered Reject runs if Y of Gaussian source us 1 UNSATURATED ZONE H (input parameter of NP - Total nu NMAT - Number of KPROP - Van Genu IMSHGN - Spatial NVFLAYR - Number of	ed Explicitly coordinate out coordinate out sed in saturat FLOW MODEL PAR description ar umber of nodal of different p uchten or Broc discretizatic	DETERMIN 3.048E-02 m/yr cside plume ced zone model RAMETERS nd value) L points 2 porous materials poks and Corey pn option	40 3 1 1 3	
OPTIONS CHOSEN				
Van Genuchten fund User defined coord 1		lcients		
Layer information				
LAYER NO. LAYER	R THICKNESS	MATERIAL PROPERTY		
1 2 3	0.91 0.58 27.05	1 1 1		

### DATA FOR MATERIAL 1

\_\_\_\_ \_\_\_ \_\_\_

## VADOSE ZONE MATERIAL VARIABLES

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- 3/18	Satura Unsatı
22	Air er
124	Depth
4:01:0.	
5 <i>P</i> M	

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

							Pag
VARIABLE NAME	UNITS DISTRIBUTION		PARAM	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX	5 of
Residual water content		CONSTANT	0.600E-01	-999.	-999.	-999.	186

Brook and Corey exponent, EN ALFA coefficient Van Genuchten exponent, ENN	 1/cm 	CONSTANT CONSTANT CONSTANT	-999. 0.500E-02 1.09	-999. -999. -999.	-999. -999. -999.	-999. -999. -999.	
	ראים דנ	DR MATERIAL 3					
	VADOSE ZONE	E MATERIAL VARIABL	ES				
VARIABLE NAME	UNITS	DISTRIBUTION	PARAMI		LI	IMITS	
VARIABLE NAME	UNITS	DISTRIBUTION	PARAMI MEAN	ETERS STD DEV	LI MIN	IMITS MAX	
	UNITS cm/hr	DISTRIBUTION				-	
Saturated hydraulic conductivity			MEAN	STD DEV	MIN	MAX	
		CONSTANT	MEAN 3.60	STD DEV -999.	MIN -999.	MAX -999.	

### 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.

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#### 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
Ν	-	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

		FOR LAYER 1  E TRANSPORT VARIABLI	ES				
VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS MEAN STD DEV		LI MIN		
Thickness of layer Longitudinal dispersivity of layer Percent organic matter Bulk density of soil for layer Biological decay coefficient	m m  g/cc 1/yr	CONSTANT DERIVED CONSTANT CONSTANT CONSTANT	28.5 -999. 0.100 1.99 0.000	-999. -999. -999. -999. -999.	-999. -999. -999. -999. -999.	-999. -999. -999. -999. -999.	

CHEMICAL SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARA	 Meters	LIMITS		
	011110		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.	I
Overall chemical decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.	
Acid catalyzed hydrolysis rate		CONSTANT	0.000	-999.	-999.	-999.	
Neutral hydrolysis rate constant	1/yr	CONSTANT	0.000	-999.	-999.	-999.	
Base catalyzed hydrolysis rate	l/M-yr	CONSTANT	0.000	-999.	-999.	-999.	
Reference temperature	С	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	n 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	PARAM MEAN	ETERS STD DEV	LI MIN	MITS MAX	Pag
Infiltration rate Area of waste disposal unit Duration of pulse Spread of contaminant source	m/yr m^2 yr m	CONSTANT CONSTANT DERIVED DERIVED	0.305E-01 790. 0.100E-08 -999.	-999.	-999. -999. -999. -999.	-999. -999. -999. -999. -999.	e 58 of 186

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Recharge rate	m/yr	CONSTANT	0.000	-999.	-999.	-999.	
Source decay constant	1/yr	CONSTANT	0.250E-0	0.000	0.000	0.000	>
Initial concentration at landfill	mg/l	CONSTANT	0.125E+0	)5 -999.	-999.	-999.	lec
Length scale of facility	m	DERIVED	-999.	-999.	-999.	-999.	ei
Width scale of facility	m	DERIVED	-999.	-999.	-999.	-999.	vea
Near field dilution		DERIVED	1.00	0.000	0.000	1.00	6
							~

# AQUIFER SPECIFIC VARIABLES

Source decay constant Initial concentration at landfill Length scale of facility Width scale of facility Near field dilution	1/yr mg/l m m	CONSTANT CONSTANT DERIVED DERIVED DERIVED	-999. -999.	-999. -999. -999.	-999. -999.	-999. -999.	Received by OCD:
	AQUIFE	R SPECIFIC VARIABLE	S				OCD: 3/
VARIABLE NAME	UNITS	DISTRIBUTION	PARAM MEAN	ETERS STD DEV		MITS MAX	3/7/2024 3
							<u>ى</u>
Particle diameter	Cm	CONSTANT	-999.	-999.	-999.	-999.	3:49:03 PM
Aquifer porosity		CONSTANT	0.300	-999.	-999.	-999.	93
Bulk density	g/cc	CONSTANT	1.86	-999.	-999.	-999.	PA
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	С	CONSTANT	20.0	-999.	-999.	-999.	
pH		CONSTANT	7.00	-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+0 0.200E+0 0.300E+0 0.400E+0 0.500E+0 0.600E+0 0.700E+0 0.800E+0 0.900E+0 0.100E+0 0.110E+0 0.120E+0	02 0.00000E+00 02 0.00000E+00 02 0.00000E+00 02 0.00000E+00 02 0.00000E+00 02 0.00000E+00 02 0.21433E+00 03 0.86679E+00 03 0.65071E+01
0.130E+0	
0.140E+0 0.150E+0	
0.160E+0 0.170E+0 0.180E+0 0.190E+0	03 0.44059E+03 03 0.70233E+03 03 0.97925E+03

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0.760E+03	0.00000E+00
0.770E+03	0.00000E+00
0.780E+03	0.00000E+00
0.790E+03	0.00000E+00
0.800E+03	0.00000E+00
0.810E+03	0.00000E+00
0.820E+03	0.00000E+00
0.830E+03	0.00000E+00
0.840E+03	0.00000E+00
0.850E+03	0.0000E+00
0.860E+03	0.0000E+00
0.870E+03	0.00000E+00
0.880E+03	0.00000E+00
0.890E+03	0.00000E+00
0.900E+03	0.00000E+00
0.910E+03	0.00000E+00
0.920E+03	0.00000E+00
0.930E+03	0.00000E+00
0.940E+03	0.00000E+00
0.950E+03	0.00000E+00
0.960E+03	0.00000E+00
0.970E+03	0.00000E+00
0.980E+03	0.00000E+00
0.990E+03	0.00000E+00
0.100E+04	0.00000E+00

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Received by OCD: 3/7/2024 3:49:03 PM

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# **Appendix E Laboratory Analytical Reports**



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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE		

# Sample ID: NW 1 (H230289-01)

BTEX 8021B	mg	/kg	Analyze	ed 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	116	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE		

### Sample ID: NW 2 (H230289-02)

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE		

#### Sample ID: WW 2 (H230289-03)

BTEX 8021B	mg,	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE		

#### Sample ID: WW 3 (H230289-04)

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.4	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE		

#### Sample ID: SW 2 (H230289-05)

BTEX 8021B	mg,	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	′kg	Analyze	d 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	Analyze	d 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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE		

#### Sample ID: SW 3 (H230289-06)

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE		

#### Sample ID: SW 4 (H230289-07)

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.2	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg,	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.7	% 49.1-14	8						

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	kg	Analyze	d 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 %	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.8	% 49.1-14	8						

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	0						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.9	% 49.1-14	8						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg,	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.2	% 49.1-14	8						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.5	% 49.1-14	8						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **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 SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

	(575) 393-2326 FAX (575) 393	-		_	Λ	00	ti	1	e			-		_		_				_			ta			
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Page 82 of 186

FORM-006 Revision 1.0

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

<u>.</u>	(575) 393-2326 FAX (575) 393	-	_			_	1	ov	+;	1	e								-	+2			
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Received by OCD: 3/7/2024 3:49:03 PM



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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg	/kg	Analyze	d 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	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	145	% 49.1-14	8						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.4	% 49.1-14	8						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.9	% 49.1-14	8						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.1	% 49.1-14	8						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 %	49.1-14	8						

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.6	% 49.1-14	8						

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.3	% 49.1-14	8						

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	49.1-14	8						

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.7	% 49.1-14	8						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.9	% 49.1-14	8						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.7	% 49.1-14	8						

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg,	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	'kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.7	% 49.1-14	8						

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### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.7	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg,	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.5	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg,	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.1	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.3	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	/kg	Analyze	ed 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed 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	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	203 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.2	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg,	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.5	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	'kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.5	% 49.1-14	8						

### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/20/2023	Sampling Date:	01/20/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	126 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **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

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM (575) 393-2326 FAX (575) 393			R	00	ti	10												1.	t	3		
Company Name: Etech Environmental & Safety S		s, In		<u> </u>		Ĩ	-		81	LL TO					AN	ALYS	SIS R	EQUE	ST			
roject Manager: Lance Crenshaw			-				P.O.	#:														Τ
Address: 2617 W Marland							Соп	npar		lenbo	urne											
City: Hobbs State: NM	Zip	: 88	240			4	Attn	: J	ef	FBro	m	1										
Phone #: (575) 264-9884 Fax #:				_		_	Add	ress	:48	OBUSIA	erslikBl	1									1	
Project #: 17369 Project Ov	mer: A	1e	wb	au	rne		City: Hobbs												1	Ł		
Project Name: Kansas Containment							State: NM zip: 88 240 8 5										1	1				
Project Location:		-		_				ne #		5)605	-6908	Chloride	TPH (8015M)	BTEX (8021B)				1				
Sampler Name: Eric Mojica	_	_	_			-	Fax	-	-			5	Hd	Ě				1				
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1230313	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	NASTEWATER	SOIL	SLUDGE	OTHER	ACID/BASE:	OTHER :	DATE	TIME											
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3 DFS2 · Surf.	G	1			1			V	1	/		V	V	V								I
4 DFS 2el	G	1			1		1	1		/		V	V	X		_	_	-				
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9 DFS 40 Surf	G	++		-	1	$\vdash$	+	1	1	$\rightarrow$		V	V	V				+	+	+	+-	+
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salyses. All claims including those for negligence and any other cause whetevever al cores. In no event shall Cardinul be liable for incidental or consequential damages, in		nd webb ad Hanib	ad ania allon, b		de in write a interrupt	g and s ions, los	ucela In of u	nd by C no, or 1	endined w	offic incurred by a	r compieton of t fient, ils subsidie	des,	bie									
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ne: Etech Environmental & Safety Solutions. Inc. BILL TO ANALYSIS REQUEST  Prome # 507 W Mariand Safety Solutions. Inc. BILL TO ANALYSIS REQUEST  Prome # 507 W Mariand Company Mewbourne Sample I.D.		1 East Marland, Hobbs, 575) 393-2326 FAX (575			K	00	ti	1e													2.	F3		
Bit 7 W Martand       Company Me wbo vr ne       State: NM     Zip: 88240       Attn: Je ff Broom       Address MI Business Pikkled       TS 6 9     Project Owner: Me wbo vr ne       (W 4000)       Sample I.D.       Barrow	ompany Name:	Etech Environmental & Sat	ety Solutions	, Inc						.6	<u>j</u> l	LTO	-					ANA	LYSI	S RI	EQUE	ST		
Bit 7 W Martand       Company Me wbo V/ n e       s     State: NM     Zip: 88240     Attn: Je ff Broom       S73) 264-9884     Fax #:     Address MB/Winters Pk/W       13 6 9     Project Owner: Me wbo V/ n e     City: Hodder       13 6 9     Project Owner: Me wbo V/ n e     City: Hodder       13 6 9     Project Owner: Me wbo V/ n e     City: Hodder       10 0:     Phone #572) 2055-8908     Poil       e: Eric Mojic     Fax #:     Phone #572) 205-8908     Poil       e: Eric Mojic     Fax #:     Phone #572) 205-8908     Poil       10 0:     Will Will Will Will Will Will Will Will	roject Manager:	Lance Crenshan	/					P	.0.1	lk:									Γ					
s State: NM Zip: 88240 Attn:: Je $ff B_{100}$ m S75) 264-9864 Fax #: Address #UB Business Pike Wal 736 9 Project Owner: Me bo une City: Holds i Kanses Containment State: NM Zip: 88240 For the former of the fo								С	omp	bany ,	M	entou	rne											
I S & Q       Project Owner: Me who use city: Hohs         Kanses Containment       State: N/M Zip: 88.240         Phone #573/605-6408         e: Enic Mojica         Bample I.D.         Build Willing         B	ity: Hobbs	State	NM Zip	: 88	240			A	ttn:	Je	H	Broo	m											
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Sample I.D.       Image: Second control of the	ampler Name: E	ric Mojica												Ch	H	EX								
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all Califinal be Bubbs for incidential or consequential damages, including without limitation, business interruptions, loss of was, or loss of profils incurred by client, its exhibitiaries, 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.	20 D	FS Te3	G	I		1				V				V	V	$\checkmark$								
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(575) 393-2326 FAX (575) 393	and the second se	tine		3-+3				
Company Name: Etech Environmental & Safety So	olutions, Inc.	BILL TO		ANALYSIS REQUEST				
Project Manager: Lance Crenshaw		P.O. #:						
Address: 2617 W Marland		Company Membourne						
City: Hobbs State: NM	Zip: 88240	Attn: Jeff Broom Address: 180 Busines Pitting						
Phone #: (575) 264-9884 Fax #:	A.4 /	Address: 40 Busines Piklin						
Project #: 17369 Project Ow Project Name: Kansas Containment	ner: Menbourne	City: Hobbs						
		State: NM Zip: 88240 Phone #: 675) 605-6908	115h 115h					
Project Location:			Chioride TPH (8015M) BTEX (8021B)					
Sampler Name: Eric Mojica	MATRIX	Fax #:						
FOR CHE USE ONLY								
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER : ACID/BASE: OTHER : OTHER :						
21 DFS 8e Surt.	GIV	1 1-20-23						
22 DFS8el	GIJ	1	1 1 1					
23 DFS 802'	GIII		111					
24 DFS 803	GIV		VVV					
as DFS 90 Suff.	GIV		111					
36 DFS9e 1'	GIV	K						
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LEASE NOTE: Liability and Demegres. Cordina's liability and clear's outbasive remedy	for any claim ariting whether based in cont	act or tort, shell be limited to the amount paid by the client for	rihe he profesije					
service. In no event shall Cardinal be liable for indulated or consequential damages, incl afflictus or successors arising out of or related to the performance of services hereunde	ading without limitation, business interruption by Cardmai, regardines of whether such ci	te, loss of use, or less of profile insured by client, its unbelide de is based upon any of the above staled reasons or officered						
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In More Time 20	a lauraya	REMARKS	S:					
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Time:	-		14					
Delivered By: (Circle One)	#113 Sample Con	lition CHECKED BY:	email results and c	opy of CoC to pm@etechenv.com.				
Sampler - UPS - Bus - Other: 1/0°/	1/ 2° Cool Intac	(Initials) Yes						
Sampler - OFS - Dus - Other. 4.9c/	T.JC NOD							

Released to Imaging: 3/18/2024 4:01:05 PM

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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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	96.0	16.0	01/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.6	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	'kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.7	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	'kg	Analyze	d 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 %	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.0	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.4	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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#### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg,	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.3	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg,	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	123 9	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.2	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg,	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.3	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.0	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.9	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.2	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.7	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.2	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.7	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

## Sample ID: WW 1 (H230333-25)

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.6	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

## Sample ID: SW 1 (H230333-26)

BTEX 8021B	mg/	′kg	Analyze	d 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	127 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg,	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88. <i>3</i>	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.2	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	/kg	Analyze	d 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	127 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.1	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.1	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.8	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.8	% 49.1-14	8						

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## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.3	% 49.1-14	8						

## Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	01/24/2023	Sampling Date:	01/23/2023
Reported:	01/25/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

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

BTEX 8021B	mg/	/kg	Analyze	d 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	122 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.2	% 49.1-14	8						

### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

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

### **Cardinal Laboratories**

## \*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

(575) 393-2326 FAX (575) 393-2476			10+84
ompany Name: Etech Environmental & Safety Solutions, Inc.	BILL TO	AN	ALYSIS REQUEST
roject Manager: Lance Crenshew ddress: 2617 W Marland			
ity: Hobbs State: NM Zip: 88240	mpany Menbourne In: Jeff Broom		
hone #: (575) 264-9884 Fax #:	Idress 4 M Business fik Blog		
roject #: 17369 Project Owner: Menbourne	ty: Hobs		
roject Name: Kansa's Containment	NAA - PONIA	5W)	
roject Location:	ate:/// Zip: 00/70 p	801	
ampler Name: Eric Mejica	x#:	TPH (8015M) BTEX (8021B)	
FOR LAB USE ONLY MAT	PRESERV. SAMPLING	11 19	
Comp     Sample I.D.       (6)RaB or (C)OMP     # CONTAINERS       # CONTAINERS     # CONTAINERS       Soll     WASTEWATER	ACID/BASE: CCE / 900r OTHER : BMIL BLAD		
1 FS 0-3' CI 1	1 23.23	V V	
ZFSZe3 CI			
3 FS 3e3° CI V 4 FS 4e2° CI V			
SFS 5021/2 CIL 1			
6 FS 6 2 /2 CII V		1/1/	
7 FS 7= 31/2 CI V			
8 FS 8=2/2 CI V			
9 FS9e2/2 CIV			
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ss: 2617 W Marland				Menbou	rne									
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Company Name:	Etech Environmental & Safety S	olutions	s, Inc	2				-		.81	LL T			_		ANALY	SIS R	EQUE	ST		
Project Manager:	Lance Creashan							P.0	-				-								
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Page 42 of 42



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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

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

Received:	11/13/2023	Sampling Date:	11/10/2023
Reported:	11/16/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE-EDDY CO		

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.2	% 49.1-14	8						

## Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	11/13/2023	Sampling Date:	11/10/2023
Reported:	11/16/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE-EDDY CO		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.1	% 49.1-14	8						

### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	11/13/2023	Sampling Date:	11/10/2023
Reported:	11/16/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE-EDDY CO		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.8	% 49.1-14	8						

### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	11/13/2023	Sampling Date:	11/10/2023
Reported:	11/16/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE-EDDY CO		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.8	% 49.1-14	8						

### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	11/13/2023	Sampling Date:	11/10/2023
Reported:	11/16/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE-EDDY CO		

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

BTEX 8021B	mg/	kg	Analyze	d 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 %	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.2	% 49.1-14	8						

### Cardinal Laboratories

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	11/13/2023	Sampling Date:	11/10/2023
Reported:	11/16/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE-EDDY CO		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.4	% 49.1-14	8						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	11/13/2023	Sampling Date:	11/10/2023
Reported:	11/16/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE-EDDY CO		

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
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	
TPH 8015M	mg,	/kg	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.0	% 49.1-14	8						

### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	11/13/2023	Sampling Date:	11/10/2023
Reported:	11/16/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE-EDDY CO		

## Sample ID: EH 3 @ 1 FT (H236208-08)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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 \$	48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.7 9	% 49.1-14	0						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	11/13/2023	Sampling Date:	11/10/2023
Reported:	11/16/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE-EDDY CO		

## Sample ID: EH 4 @ SUR (H236208-09)

BTEX 8021B	mg/	kg	Analyze	d 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 %	% 71.5-13	4						
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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.8 9	% 49.1-14	8						

### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	11/13/2023	Sampling Date:	11/10/2023
Reported:	11/16/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE-EDDY CO		

## Sample ID: EH 4 @ 1 FT (H236208-10)

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
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	71.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.1	% 49.1-14	8						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	11/13/2023	Sampling Date:	11/10/2023
Reported:	11/16/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE-EDDY CO		

## Sample ID: EH 5 @ SUR (H236208-11)

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.3	% 49.1-14	8						

### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	11/13/2023	Sampling Date:	11/10/2023
Reported:	11/16/2023	Sampling Type:	Soil
Project Name:	KANSAS CONTAINMENT	Sampling Condition:	Cool & Intact
Project Number:	17369	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE-EDDY CO		

## Sample ID: EH 5 @ 1 FT (H236208-12)

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.7	% 49.1-14	8						

### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

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

### **Cardinal Laboratories**

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

Company Name: Etech Environmental & Safety Solu	tions, Inc	BILL TO				ANALYS	SIS REQUEST	
Project Manager: Lanc Crenshaw		P.O. #:	T					
Address: 2617 West Marland		Company Melybourn	1					
City: Hobbs State: NM	Zip: 88240	Attn: Jeff Broom						
Phone #: (575) 264-9884 Fax #:		Address:	1 4					
Project #: 17369 Project Owne	· Mewbourn	City: Hobbs	1					
Project Name: Kansas Containmen		State: /// Zip: 88 240		Ŵ	18)			
Project Location: Endy County	+	Phone #:		TPH (8015M)	BTEX (8021B)			
Sampler Name: Dominic Casare	2	Fax #:	Chloride	H (8	X			
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING		TP	BTE	1		
Lab I.D. Sample I.D. H334208 DC I NHI @ Sur $3 EHI @ Sur 4 EHI @ Ift 5 EHZ @ SUR 4 EHZ @ Ift 7 EHS @ Sur 8 EH3 @ Ift 9 EH4 @ Sur 10 EH4 @ Ift 14 EH4 @ Ift 14 EH4 @ Ift 15 EH4 @ Sur 16 EH4 @ Ift 1$	G)RAB OR (C)OMP (G)RAB OR (C)OMP A CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SILUDGE	a or tort shall be immed to the amount paid by the client for the received by Cardinal with: 30 days after competition of the received by Cardinal with: 30 days after competition of	the					
Relinquished By: Relinquished By: Relinquished By: Relinquished By: Time: Time:	Carolinal regardless of v either such claim	tion CHECKED BY: (Initials)	se esult: [ It: ] S:	Yes Yes	□ No	Add'I Pho Add'I Fax		

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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

41

Page 16 of 16

Project Manager:       Lan( CrenShaw       P.O. #:         Address:       2617 West Marland       Company MeW Journ         City:       Hobbs       State: NM Zip: 88240       Attn: Jeff Broom         Phone #:       (575) 264-9884       Fax #:       Address:         Project #:       J7 369       Project Owner: MeW bourn       City:       Hobb's       State: NM Zip: 88240         Project Name:       Kansas Contain Ment       State://M Zip: 88240       Phone #:       State: NM Zip: 88240       Phone #:         Project Location:       E d & y       Country       Phone #:       Fax #:       Phone #:         Sampler Name:       Down's n'. C       Casc.r c2       Fax #:       Sample I.D.       MATRIX       PRESERV.       SAMPLING         H3362008       Sample I.D.       Barry III Non Waren       Barry IIII Non Waren       Barry III Non Waren	
Address:       2617 West Marland       Company MeW bour M         City:       Hobbs       State: NM       Zip: 88240       Attn:       Jeff Brown         Phone #:       (575) 264-9884       Fax #:       Address:       Address:       Project #:       Project Owner:       MeW bour M       City:       Hobby 5       For the bour M       City:       Hobby 5       For the bour M       Project Name:       Kansas Contain Ment       State: NM       Sta	8
City:       Hobbs       State:       NM       Zip:       88240       Attn:       Jeff       Broom         Phone #:       (575)       264-9884       Fax #:       Address:       Address:       Address:       Address:       Address:       Address:       Project Name:       Kansas Contain ment       State:       State:       Mini Zip:       88240       Project Name:       Fax #:       Project Name:       Eddy       County       Phone #:       Fax #:       Project Name:       Phone #:       Fax #:       Phone #:       Fax #:       Project Name:       Phone #:	
Phone #:       (575) 264-9884       Fax #:       Address:         Project #:       17 3 6 9       Project Owner:       MeW bo UrN       City:       Hobby 5         Project Name:       Kansas Contain ment       State://m zip: 88240       Phone #:       State://m zip: 88240       Project With zip: 88240       Project Name:       Phone #:       Phone #: <td>8</td>	8
Project Name:       Kansas Contain ment       State://m zip: 88240       op         Project Location:       E d & y       Count y       Phone #:       Phone #:         Sampler Name:       Do M's n', C       Casc v C 2       Fax #:       Project Name:       Project Name:       Phone #:         FOR LABUSE OWNY       MATRIX       PRESERV.       SAMPLING       Bay Sample I.D.       Bay Sample I.D. <td< td=""><td></td></td<>	
Project Name:       Kansas Contain ment       State://m zip: 88240       project Location:       E d & y       Count y       Phone #:         Sampler Name:       Do Minic C (ASCVC2)       Fax #:       Fax #:       Fax #:       For LAB USE OWNY       PRESERV. SAMPLING       Sample I.D.       Sampl	8
Tap I'D' Zamble I'D' All OR (C)OMP NTAINERS NUNDWATER REASE COOL	
Tap I'D' 2000 Base Cool Cool	
Tap I'D' Zamble I'D' All OR (C)OMP NTAINERS NUNDWATER REASE COOL	
Tap I'D' 2000 DGE COMPONITAINERS DIABOR (C)OMPONITAINERS DIABOR (C)OMPONITAINERS DIABOR (C)OMPONITAINERS	
HJ34208 DC // EHS @ SV G /2 EHS @ I Ft /2 EHS @ I Ft //	

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# Appendix F Regulatory Correspondence

From:	Lance Crenshaw
То:	Enviro, OCD, EMNRD
Cc:	Ben Arguijo; 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 <u>lance@etechenv.com.</u>

Lance Crenshaw Etech Environmental & Safety Solutions 575-631-2532

## **Ben Arguijo**

From: Sent: To: Cc: Subject:	Hamlet, Robert, EMNRD <robert.hamlet@emnrd.nm.gov> Tuesday, January 17, 2023 8:43 AM Ben Arguijo Connor Walker; Jeff Broom; Lance Crenshaw; Joel Lowry; Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD; Harimon, Jocelyn, EMNRD (Extension Approval) nAPP2231362043 - Kansas 28/33 W0AP Fed Com #1H Battery Transfer Pump</robert.hamlet@emnrd.nm.gov>
Subject:	(Extension Approval) hAPP2231362043 - Kansas 28/33 WOAP Fed Com #TH 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 WOAP 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

**CTECH** 

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
То:	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<u>|Shelly.Wells@emnrd.nm.gov</u> 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 WOAP 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 WOAP 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



811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

## **State of New Mexico** Energy, Minerals and Natural Resources **Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS

Action 321133

	QUESTIONS
Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	321133
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

#### QUESTIONS Proroquisitos

Fielequisites	
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.

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

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District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

## **State of New Mexico** Energy, Minerals and Natural Resources **Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

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QUESTIONS, Page 2

Action 321133

**QUESTIONS** (continued) Operator: OGRID: MEWBOURNE OIL CO 14744 P.O. Box 5270 Action Number Hobbs, NM 88241 321133 Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

ľ	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.
ſ	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.
1	Nith 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 s	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.
	iation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer

Email: cwalker@mewbourne.com

Date: 03/07/2024

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

## **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

**QUESTIONS** (continued)

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	321133
F F	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 elease discovery date. What is the shallowest depth to groundwater beneath the area affected by the Between 26 and 50 (ft.) release in feet below ground surface (ft bgs) What method was used to determine the depth to ground water Estimate or Other Did this release impact groundwater or surface wate . .

Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release a	nd 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 remediatio	n plan approval with this submission	Yes
Attach a comprehensive report of	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 verti	cal extents of contamination been fully delineated	Yes
Was this release entirely	contained within a lined containment area	No
Soil Contamination Samplin	ng: (Provide the highest observable value for each, in mi	lligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI 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
	NMAC unless the site characterization report includes completed imelines for beginning and completing the remediation.	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
which includes the anticipated t		d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, 01/16/2023
which includes the anticipated t On what estimated date	imelines for beginning and completing the remediation.	
which includes the anticipated to On what estimated date of On what date will (or did)	imelines for beginning and completing the remediation. will the remediation commence	01/16/2023
which includes the anticipated to On what estimated date will On what date will (or did) On what date will (or was	imelines for beginning and completing the remediation. will the remediation commence the final sampling or liner inspection occur	11/10/2023
which includes the anticipated t On what estimated date w On what date will (or did) On what date will (or was What is the estimated su	imelines for beginning and completing the remediation. will the remediation commence the final sampling or liner inspection occur ) the remediation complete(d)	01/16/2023 11/10/2023 02/03/2023
which includes the anticipated to On what estimated date will On what date will (or did) On what date will (or was What is the estimated sum What is the estimated vol	imelines for beginning and completing the remediation. will the remediation commence the final sampling or liner inspection occur ) the remediation complete(d) face area (in square feet) that will be reclaimed	01/16/2023 11/10/2023 02/03/2023 28457
which includes the anticipated t On what estimated date w On what date will (or did) On what date will (or was What is the estimated su What is the estimated vol What is the estimated su	imelines for beginning and completing the remediation. will the remediation commence the final sampling or liner inspection occur ) the remediation complete(d) face area (in square feet) that will be reclaimed ume (in cubic yards) that will be reclaimed	01/16/2023 11/10/2023 02/03/2023 28457 2582
which includes the anticipated to On what estimated date will On what date will (or did) On what date will (or was What is the estimated sum What is the estimated sum What is the estimated sum What is the estimated sum	imelines for beginning and completing the remediation. will the remediation commence the final sampling or liner inspection occur ) the remediation complete(d) face area (in square feet) that will be reclaimed ume (in cubic yards) that will be remediated ume (in cubic yards) that will be remediated ume (in cubic yards) that will be remediated	01/16/2023 11/10/2023 02/03/2023 28457 2582 21057

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required

Action 321133

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

## **State of New Mexico** Energy, Minerals and Natural Resources **Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 4

Action 321133

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QUESTIONS (continued)			
Operator:	OGRID:		
MEWBOURNE OIL CO	14744		
P.O. Box 5270	Action Number:		
Hobbs, NM 88241	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 <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes		
Which OCD approved facility will be used for <b>off-site</b> disposal	Not answered.		
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> 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	ТХ		
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.			

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.

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

Operator:

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

## **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

Action Type:

[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS, Page 5

Action 321133

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QUESTIONS (continued)	
	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	321133

#### 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 wh 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 [fAPP2126046386]			
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	Title: Senior Engineer Email: cwalker@mewbourne.com			

Date: 03/07/2024

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

## **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 6

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**QUESTIONS** (continued) Operator: OGRID: MEWBOURNE OIL CO 14744 P.O. Box 5270 Action Number Hobbs, NM 88241 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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## **State of New Mexico** Energy, Minerals and Natural Resources **Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	321133
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

## CONDITIONS

Created By Condition Condition Date 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 3/18/2024 scwells of a major facility deconstruction or at plugging and abandonment, whichever comes first.

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