	Page 1 of 31	8
Incident ID	nAPP2120041782	
District RP		
Facility ID		
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 19.15.29.1 ✓ Proposed schedule for remediation (note if remediation plan times) 	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.
✓ Contamination must be in areas immediately under or around predeconstruction.	
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.
I hereby certify that the information given above is true and complet rules and regulations all operators are required to report and/or file c which may endanger public health or the environment. The acceptant liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local later.	ertain release notifications and perform corrective actions for releases are of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
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 A	Approval
Signature:	Date:

Remediation Summary, Variance & Deferral Request (Revised)

Mewbourne Oil Company Red Hills West 21 Fed Com #2H SWD Line

Lea County, New Mexico
Unit Letter "N", Section 16, Township 26 South, Range 32 East
Latitude 32.0358340 North, Longitude 103.680419 West
NMOCD Reference No. nAPP2120041782

Prepared By:

Etech Environmental & Safety Solutions, Inc.

6309 Indiana Ave, Ste. D Lubbock, Texas 79413

Lance Crenshaw

Joel W. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette

TABLE OF CONTENTS

	Section
PROJECT INFORMATION	1.0
SITE CHARACTERIZATION	2.0
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE	3.0
INITIAL SITE ASSESSMENT	4.0
REMEDIATION ACTIVITIES SUMMARY	5.0
IN-SITU CHLORIDE MIGRATION MODELING	6.0
VARIANCE REQUEST	
DEFERRAL REQUEST	8.0
RESTORATION, RECLAMATION & RE-VEGETATION PLAN	9.0
LIMITATIONS	10.0
DISTRIBUTION	11.0

FIGURES

Figure 1 - Topographic Map

Figure 2 - Aerial Proximity Map

Figure 3 - Site & Sample Location Map

TABLES

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

APPENDICES

Appendix A - Depth to Groundwater Information

Appendix B - Field Data

Appendix C - Photographic Log

Appendix D - Multimedia Exposure Assessment Model (MULTIMED) - North Excavation Appendix E - Multimedia Exposure Assessment Model (MULTIMED) - South Excavation

Appendix F - Multimedia Exposure Assessment Model (MULTIMED) - Deferral Area

Appendix G - Laboratory Analytical Reports

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Remediation Summary, Variance & Deferral Request (Revised)* for the release site known as the Red Hills West 21 Fed Com #2H SWD Line (henceforth, "Red Hills West 21"). Details of the release are summarized below:

	Locatio	on of Release So	urce						
Latitude:	32.0358340	Longitude:	-103.680419						
	Provide	ed GPS are in WGS84 form	at.						
	lls West 21 Fed Com #2H SWD	Line Site Type:	Pipeline						
Date Release Discov	ered: 7/11/2021	API # (if applic	able): N/A						
Unit Letter	Section Township	Range	County						
"N"	16 26S	32E	Lea						
Surface Owner: X		Private (Nar							
Crude Oil	Volume Released (bbls)		Volume Recovered (bbls)						
X Produced Wate	Volume Released (bbls)	140	Volume Recovered (bbls) 70						
Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?									
Condensate	Volume Released (bbls)		Volume Recovered (bbls)						
Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)						
Other (describe) Volume/Weight Released		Volume/Weight Recovered						
Cause of Release: A 3" poly Salt Wate	er Disposal (SWD) line develope	ed a leak.	1						
	Iı	nitial Response							
X The source of the	e release has been stopped.								
X The impacted ar	ea has been secured to protect hur	nan health and the en	vironment.						
X Release material	s have been contained via the use	of berms or dikes, ab	sorbent pad, or other containment devices						
X All free liquids a	and recoverable materials have be	en removed and mana	aged appropriately.						

Previously submitted portions of the 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 Red Hills West 21 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?	2	10'
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?	X Yes	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?	X Yes	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 Red Hills West 21 release site are as follows:

Probable Depth to Groundwater	('onstituent	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
210'	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 March 3 and 4, 2022, Etech conducted an initial site assessment. During the site assessment, a series of soil bores and/or test trenches (SP1 through SP8) 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, EH3, EH4, EH5, SH1, WH1, WH2, WH3, WH4, and WH5) 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 soil bores/test trenches, 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, a total of 40 delineation soil samples (NH1 @ Surface, NH1 @ 1', EH1 @ Surface, EH1 @ 1', EH2 @ Surface, EH2 @ 1', EH3 @ Surface, EH3 @ 1', EH4 @ Surface, EH4 @ 1', EH5 @ Surface, EH5 @ 1', SH1 @ Surface, SH1 @ 1', WH1 @ Surface, WH1 @ 1', WH2 @ Surface, WH2 @ 1', WH3 @ Surface, WH3 @ 1', WH4 @ Surface, WH4 @ 1', WH5 @ Surface, WH5 @ 1', SP1 @ Surface, SP1 @ 8', SP2 @ Surface, SP2 @ 14', SP3 @ Surface, SP3 @ 6', SP4 @ Surface, SP4 @ 4', SP5 @ Surface, SP5 @ 4', SP6 @ Surface, SP6 @ 8', SP7 @ Surface, SP7 @ 6', SP8 @ Surface, and SP8 @ 8') were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the horizontal and vertical extent of impacted soil was adequately defined and ranged from approximately four (4) feet below ground surface (bgs) in the areas characterized by sample points SP4 and SP5 to eight (8) feet bgs in the areas characterized by sample point SP2.

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

5.0 REMEDIATION ACTIVITIES SUMMARY

On May 9, 2022, remediation activities commenced at the release site. Due to the size and nature of the release, the affected area was divided into three (3) sections: North Excavation, which is in the pasture north of the Red Hills West SWD; South Excavation, which is in the pasture south of the SWD; and the Pad, which includes portions of the production pad and encompasses the SWD facility itself. 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 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 extent of impacted soil and to guide the excavation. The sidewalls of the excavations were advanced to the extent practicable or until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. The excavations were advanced vertically to approximately four (4) feet bgs.

On May 11, 2022, Etech collected six (6) confirmation soil samples (NW 1A, SW 1B, SW 2B, SW 3B, WW 1E, and WW 2A) from the sidewalls of the South Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated 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 below the applicable laboratory method detection limit (MDL). Chloride concentrations ranged from 32.0 mg/kg in soil sample WW 1E to 480 mg/kg in soil sample SW 2B.

On May 13, 2022, Etech collected nine (9) confirmation soil samples (NW 2C, NW 3B, EW 1B, EW 2B, EW 3A, SW 4A, SW 5A, WW 3B, and WW 4) from the sidewalls of the South Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated 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 below the applicable laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil samples EW 3A and WW 3B to 208 mg/kg in soil sample SW 5A.

On May 17, 2022, Etech collected seven (7) confirmation soil samples (NW 4, EW 4, EW 5, EW 6A, WW 5, WW 6, and WW 7) from the sidewalls of the South Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated 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 below the applicable laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil sample WW 6 to 144 mg/kg in soil sample NW 4.

On May 20, 2022, Etech collected seven (7) confirmation soil samples (NW 5A, EW 7B, EW 8B, SW 6A, SW 7A, WW 8B, and WW 9A) from the sidewalls of the South Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated 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 below the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil sample SW 6A to 208 mg/kg in soil sample WW 9A.

On May 26, 2022, Etech collected 15 confirmation soil samples (NW 6, EW 9A, EW 10B, EW 11A, EW 12A, SW 8A, SW 9B, SW 10, SW 11C, WW 10, WW 11B, WW 12A, WW 13A, WW 14, and WW 15) from the sidewalls of the South Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated 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 below the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil samples EW 10B and SW 8A to 528 mg/kg in soil sample WW 13A.

On May 27, 2022, Etech advanced a series of six (6) test trenches (DFS1 through DFS6) within the release margins in an effort to further characterize the affected soil in the Pad requiring deferral of remediation. During the advancement of the test trenches, 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 37 deferral characterization soil samples (DFS 1 @ Surface through DFS 1 @ 9', DFS 2 @ Surface through DFS 2 @ 3', DFS 3 @ Surface through DFS 3 @ 4', DFS 4 @ Surface through DFS 4 @ 4', DFS 5 @ Surface through DFS 5 @ 14', and DFS 6 @ Surface through DFS 6 @ 22') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples, with the exceptions of soil samples DFS 2 @ Surface, DFS 4 @ Surface, and DFS 4 @ 1', which exhibited TPH concentrations ranging from 11.3 mg/kg (DFS 2 @ Surface) to 433 mg/kg (DFS 4 @ Surface). Chloride concentrations ranged from 32.0 mg/kg in soil sample DFS 2 @ 1' to 19,300 mg/kg in soil sample DFS 3 @ Surface. Based on laboratory analytical data, the extent of impacted soil was adequately defined and ranged from less than one (1) foot bgs in the area characterized by sample point DFS4 to approximately 16 feet bgs in the area characterized by sample point DFS6. Soil was not affected beyond ground surface in the area characterized by sample point DFS2.

On June 9, 2022, Etech collected four (4) confirmation soil samples (EW 13, EW 14, SW 12, and SW 13) from the sidewalls of the South Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated 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 below the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil sample EW 14 to 32.0 mg/kg in soil samples EW 13 and SW 12.

On June 13, 2022, Etech collected nine (9) confirmation soil samples (EW 15A, EW 16A, EW 17B, EW 18A, WW 16B, WW 17B, WW 18B, WW 19B, and WW 20B) from the sidewalls of the North Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil sample EW 18A to 640 mg/kg in soil sample WW 18B, which exceeded the NMOCD Closure Criterion and Reclamation Standard.

On June 16, 2022, Etech collected six (6) confirmation soil samples (NW 7, EW 19A, EW 20A, EW 21, WW 21, and WW 22B) from the sidewalls of the North Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated 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 below the applicable laboratory MDL. Chloride concentrations ranged from 80.0 mg/kg in soil sample EW 21 to 240 mg/kg in soil sample WW 21.

Etech also advanced a hand-augered soil bore (OSS) to determine the extent of impacted soil in an area of the pasture adjacent to the North Excavation inferred to have been affected by a light overspray from the release. During the advancement of the hand-augered soil bore, soil samples were collected and field-screened for the presence of VOCs utilizing olfactory/visual senses and/or concentrations of chloride utilizing a chloride test kit. Based on field observations and field test data, two (2) delineation soil samples (OSS @ Surface and OSS @ 1') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated 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 below the applicable laboratory MDL. Chloride concentrations were 448 mg/kg in soil sample OSS @ Surface and 112 mg/kg in soil sample OSS @ 1'. Based on these laboratory analytical results, the extent of impacted soil was adequately defined and did not extend beyond ground surface.

On June 20, 2022, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample WW 18B. Etech collected one (1) confirmation soil samples (WW 18C) from the sidewall of the newly excavated area. The soil sample was submitted to the laboratory for analysis of chloride. Laboratory analytical results the chloride concentration was 48.0 mg/kg and below the NMOCD Closure Criterion and NMOCD Reclamation Standard.

On June 28, 2022, based on laboratory analytical results, field observations, and in-situ chloride migration modeling, Mewbourne submitted a *Remediation Summary, Variance & Deferral Request* to the NMOCD requesting approval to defer remediation of chloride-impacted soil affected above the NMOCD Closure Criteria remaining in-situ in the Pad until decommissioning and abandonment of the SWD facility. Permission was also requested to install 20-mil, string-reinforced liners on the floors of the North and South Excavations atop impacted soil affected above the NMOCD Closure Criteria. The requests were subsequently denied by the NMOCD, with mandates to (a) more clearly identify areas on the production pad requiring major reconstruction, as deferral of the entire pad was not permissible, and (b) perform a more thorough investigation to determine the concentrations of contaminants of concern at and below four (4) feet bgs to remain in-situ beneath the proposed liners.

On August 10, 2022, in accordance with the NMOCD, Etech advanced test trenches in the areas characterized by sample points SP1, SP2, SP3, SP4, SP7, and SP8 in an effort to further characterize the affected soil to remain in-situ beneath the proposed liners. The trenches were advanced in one (1) foot increments to total depths ranging from five (5) feet bgs (SP3 and SP7) to 13 feet bgs (SP2). During the advancement of the test trenches, 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 25 delineation soil samples (SP1 @ 5' through SP1 @ 7', SP2 @ 4' through SP2 @ 13', SP3 @ 4', SP3 @ 5', SP4 @ 4' through SP4 @ 7', SP7 @ 4', SP7 @ 5', and SP8 @ 4' through SP8 @ 7') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated 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 laboratory MDL, with the exception of soil sample SP 2 @ 13', which exhibited a TPH concentration of 137 mg/kg. Chloride concentrations ranged from 32.0 mg/kg in soil sample DFS 2 @ 1' to 19,300 mg/kg in soil sample DFS 3 @ Surface. Based on laboratory analytical data, impacted soil to remain in-situ beneath the proposed liners was adequately characterized.

On September 2, 2022, Etech advanced a hand-augered soil bore in the area characterized by sample point SP6 in an effort to further characterize the affected soil to remain in-situ beneath the proposed liner in the South Excavation. The soil bore was advanced in two (2) foot increments to a total depth of six (6) feet bgs, and two (2) delineation soil samples (SP6 @ 4' and SP6 @ 6') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples, with the exception of soil sample SP6 @ 4', which exhibited a chloride concentration of 32.0 mg/kg. Based on laboratory analytical data, impacted soil to remain in-situ beneath the proposed liner in the South Excavation was adequately characterized.

The extents of the North and South Excavations, the area to be deferred, and the locations of the confirmation and deferral characterization samples are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. General photographs of the site are provided in Appendix C. Laboratory analytical reports are provided in Appendix G.

6.0 IN-SITU CHLORIDE MIGRATION MODELING

Review of the most recent GIS map data published by the BLM's Carlsbad Field Office on January 14, 2021, indicates the Red Hills West 21 release site is in an area of "medium" potential for karst occurrence. However, it is located in a zone that was previously identified as having a "high" karst potential and is potentially unstable. Due to the possible presence of karst and unstable soil, Mewbourne affirms that deeper excavation in this area poses a risk to human health and safety that exceeds the benefits of the removal of additional soil affected above the NMOCD Closure Criteria.

Etech utilized the Environmental Protection Agency's (EPA) Multimedia Exposure Assessment Model (MULTIMED) to determine if the chloride contamination remaining in-situ below four (4) feet bgs in the North Excavation and South Excavation poses a threat to groundwater quality, as well as to simulate the efficacy of installing a geosynthetic liner on the floor of the excavations. The most appropriate and conservative parameter values possible for the site were used for the assessment model in regard to depth to groundwater (125 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 lined versus unlined excavations and/or oil and gas facilities. The model indicates the peak concentration of chloride in the underlying groundwater contributed by the contamination remaining in-situ in the North Excavation would be approximately 71.58 mg/L in 993 years if a liner were installed on the floor of the excavated area, versus 908.8 mg/L in 268 years if the excavation is not lined (see Appendix D). The model indicates the peak concentration of chloride in the underlying groundwater contributed by the contamination remaining in-situ in the South Excavation would be approximately 83.99 mg/L in 1,000 years if a liner were to be installed on the floor of the excavated area, versus 1,302 mg/L in 290 years if the excavation is not lined (see Appendix E).

Since the estimated peak concentrations of chloride are below the standard of 250.0 mg/L specified in Section 20.6.2.3103 B.(1) NMAC, pursuant to Section 19.15.29.14.A(2) NMAC, the migration models effectively demonstrate that the four (4) foot bgs excavations and installation of geosynthetic liners provide an "equal or better protection of fresh water, public health and the environment" as compared to deeper excavations.

Etech also utilized the EPA MULTIMED simulator to determine if the contamination remaining in-situ adjacent to and/or beneath the on-site storage tanks and associated containment area, pipes, appurtenances, and electrical facilities (characterized by sample points DFS5 and DFS6) poses a threat to groundwater quality. Again, using the most appropriate and conservative parameters possible for the site and area of concern, the model indicates that the concentration of chloride contributed to the underlying groundwater will not exceed the standard of 250 mg/L until approximately 172 years have lapsed (see Appendix F).

Pursuant to Section 19.15.29.12.C(2) NMAC, the model effectively demonstrates that leaving the contamination in-situ in the areas characterized by sample points DFS5 and DFS6 (henceforth, "Deferral Area") does not cause an imminent risk to human health, the environment, or ground water".

7.0 VARIANCE REQUEST

Pursuant to Section 19.15.29.14 NMAC, Mewbourne requests a variance to install 20-mil, string-reinforced liners on the floors of the North and South Excavations atop impacted soil affected above the NMOCD Closure Criteria. Approximately six (6) inches of pad material will be installed both above and below the liners in an effort to maintain their integrity during backfilling activities. The liners will be sloped to facilitate shedding of moisture outside both the footprints of the excavated areas and the maximum horizontal extent of impacted soil. These engineered controls are designed to inhibit the vertical migration of chloride contamination remaining in-situ.

Immediately following installation of the liners and pad material, the excavated areas will be backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions and compacted/contoured to achieve erosion control, stability, and preservation of surface water flow to the extent practicable.

8.0 DEFERRAL REQUEST

Impacted soil affected above the NMOCD Closure Criteria in the Pad will be excavated to the extent practicable, as depicted in Figure 3, "Site & Sample Location Map". Remediation of chloride-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.

9.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

Areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected areas will be compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas not on production pads, pipeline right-of-ways, and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site. Final reclamation and re-vegetation of the Deferral Area will be conducted upon decommissioning and abandonment of the active SWD facility.

10.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary, Variance & Deferral Request (Revised)* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference 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.

11.0 DISTRIBUTION

Mewbourne Oil Company

4801 Business Park Blvd. Hobbs, NM 88240

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 1 1220 South St. Francis Drive Santa Fe, NM 87505

Hobbs Field Office

New Mexico State Land Office 2827 North Dal Paso Street Suite 117 Hobbs, NM 88240

(Electronic Submission)

Figure 1 Topographic Map

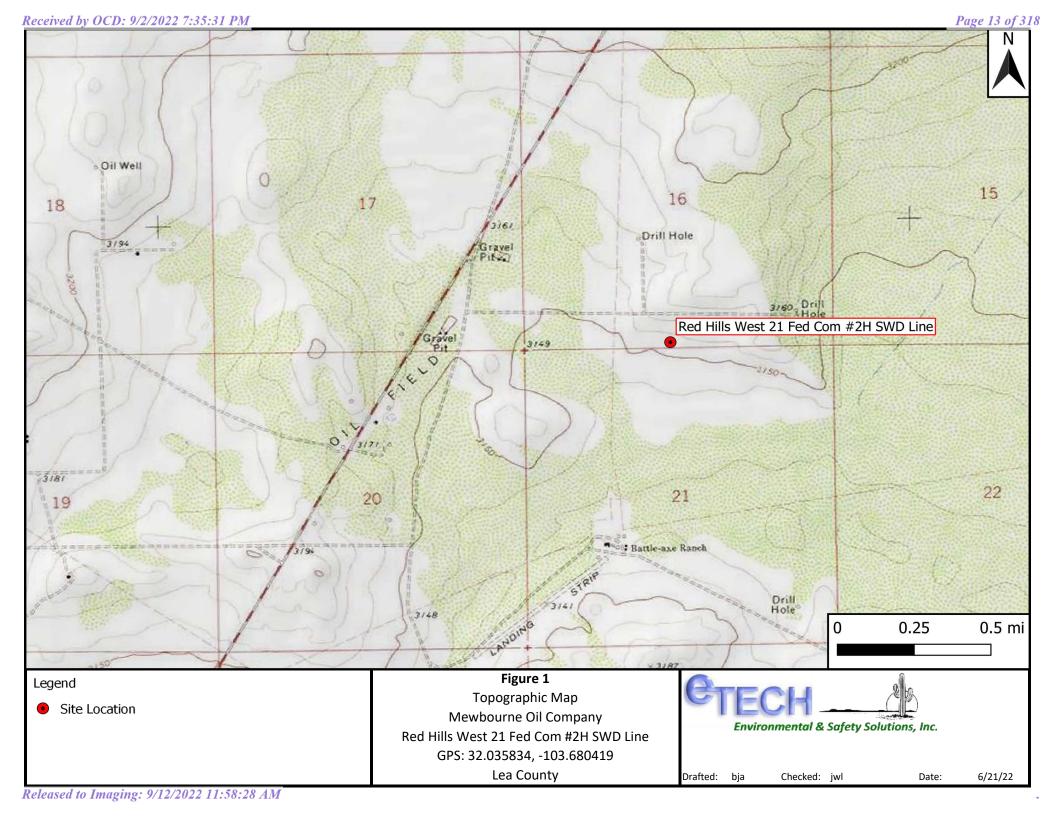


Figure 2 Aerial Proximity Map

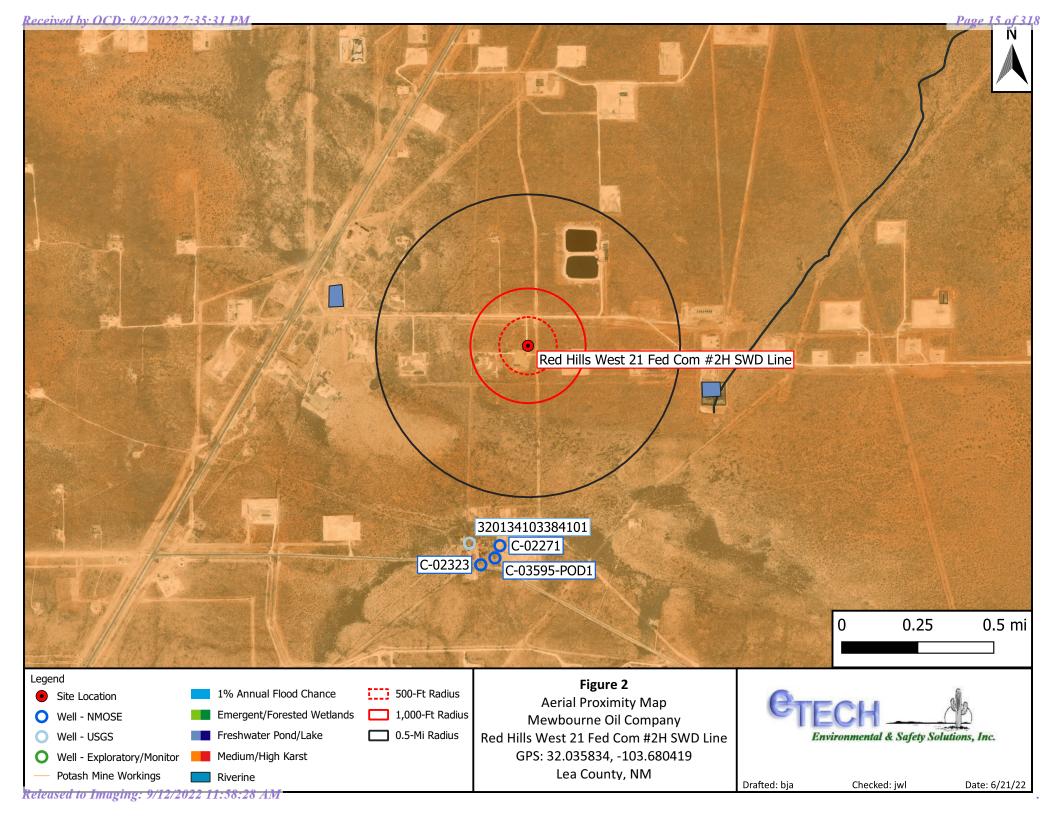


Figure 3 Site & Sample Location Map



Table 1 Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil **Mewbourne Oil Company** Red Hills West 21 Fed Com #2H SWD Line NMOCD Ref. #: nAPP2120041782 **NMOCD Closure Criteria** 50 N/A N/A N/A 100 600 **NMOCD Reclamation Standard** N/A N/A 100 600 N/A N/A SW 846 8021B 4500 Cl a GRO+ Depth Soil **GRO** DRO ORO TPH Sample ID Date DRO Benzene BTEX Chloride (Feet) Status C_6-C_{10} C_{10} - C_{28} C28-C36 $C_6 - C_{36}$ C₆-C₂₈ (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) Delineation Samples NH1 @ Surf. 3/3/2022 0 In-Situ < 0.050 < 0.300 <10.0 <10.0 < 20.0 <10.0 < 30.0 <16.0 NH1 @ 1' 3/3/2022 In-Situ < 0.300 <10.0 <10.0 < 20.0 <10.0 < 30.0 <16.0 < 0.050 EH1 @ Surf. 3/3/2022 In-Situ < 0.050 < 0.300 <10.0 <10.0 < 20.0 <10.0 < 30.0 32.0 0 EH1 @ 1' 3/3/2022 < 0.050 < 0.300 <10.0 <10.0 < 20.0 <10.0 < 30.0 <16.0 1 In-Situ 32.0 EH2 @ Surf. 3/3/2022 In-Situ < 0.050 < 0.300 <10.0 <10.0 < 20.0 <10.0 < 30.0 EH2 @ 1' 3/3/2022 1 In-Situ < 0.050 < 0.300 <10.0 <10.0 < 20.0 <10.0 < 30.0 <16.0 3/3/2022 < 0.300 <10.0 <10.0 EH3 @ Surf. 0 In-Situ < 0.050 <10.0 < 20.0 < 30.0 <16.0 < 0.300 <10.0 <10.0 EH3 @ 1' 3/3/2022 In-Situ < 0.050 <10.0 < 20.0 < 30.0 <16.0 EH4 @ Surf. 3/3/2022 0 In-Situ < 0.050 < 0.300 <10.0 <10.0 < 20.0 <10.0 < 30.0 32.0 EH4 @ 1' 3/3/2022 In-Situ < 0.050 < 0.300 <10.0 <10.0 < 20.0 <10.0 < 30.0 <16.0 EH5 @ Surf. 3/4/2022 0 In-Situ < 0.050 < 0.300 <10.0 <10.0 < 20.0 <10.0 < 30.0 32.0 EH5 @ 1' 3/4/2022 < 0.050 < 0.300 <10.0 <10.0 < 20.0 <10.0 < 30.0 80.0 In-Situ 3/4/2022 SH1 @ Surf. < 0.300 <10.0 <10.0 < 20.0 <10.0 < 30.0 256 0 In-Situ < 0.050 SH1 @, 1' 3/4/2022 In-Situ < 0.050 < 0.300 <10.0 <10.0 < 20.0 <10.0 < 30.0 48.0 WH1 @ Surf. 3/4/2022 < 0.050 < 0.300 <10.0 <10.0 < 20.0 <10.0 < 30.0 16.0 0 In-Situ WH1 @ 1' 3/4/2022 1 In-Situ < 0.050 < 0.300 <10.0 <10.0 < 20.0 <10.0 < 30.0 32.0 <10.0 < 20.0 < 30.0 WH2 @ Surf. 3/4/2022 0 In-Situ < 0.050 < 0.300 <10.0 <10.0 16.0 WH2 @ 1' 3/4/2022 < 0.050 < 0.300 <10.0 <10.0 < 20.0 <10.0 < 30.0 <16.0 1 In-Situ WH3 @ Surf. 3/4/2022 0 In-Situ < 0.050 < 0.300 <10.0 <10.0 < 20.0 <10.0 < 30.0 <16.0 < 0.300 <10.0 <10.0 WH3 @ 1' 3/4/2022 1 In-Situ < 0.050 <10.0 < 20.0 < 30.0 <16.0 WH4 @ Surf. 3/4/2022 0 < 0.050 < 0.300 <10.0 <10.0 < 20.0 <10.0 < 30.0 <16.0 In-Situ WH4 @ 1' 3/4/2022 < 0.300 <10.0 <10.0 1 In-Situ < 0.050 <10.0 < 20.0 < 30.0 <16.0 WH5 @ Surf. 3/4/2022 0 In-Situ < 0.050 < 0.300 <10.0 <10.0 < 20.0 <10.0 < 30.0 <16.0 WH5 @ 1' < 0.300 21.8 21.8 <10.0 48.0 3/4/2022 In-Situ < 0.050 <10.0 21.8 SP1 @ Surf. 3/3/2022 < 0.050 < 0.300 <10.0 12.3 69.9 1,490 0 Excavated 57.6 57.6

< 0.300

< 0.300

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<10.0

<10.0

33.9

<10.0

<10.0

<10.0

<10.0

<10.0

<10.0

<10.0

<10.0

<10.0

73.2

< 20.0

< 20.0

< 20.0

<20.0

< 20.0

33.9

< 20.0

< 20.0

< 20.0

< 20.0

< 20.0

< 20.0

< 20.0

< 20.0

< 20.0

73.2

<10.0

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<10.0

<10.0

<10.0

<10.0

<10.0

<10.0

<10.0

64.0

Dash (-): Sample not analyzed for that constituent. **Bold:** NMOCD Closure Criteria exceedance.

8/10/2022

8/10/2022

8/10/2022

8/10/2022

3/3/2022

3/3/2022

8/10/2022

8/10/2022

8/10/2022

8/10/2022

8/10/2022

8/10/2022

8/10/2022

8/10/2022

8/10/2022

8/10/2022

4

5

6

7

8

0

4

5

6

7

8

9

10

11

12

13

In-Situ

In-Situ

In-Situ

In-Situ

In-Situ

Excavated

In-Situ

< 0.050

< 0.050

< 0.050

< 0.050

< 0.050

< 0.050

< 0.050

< 0.050

< 0.050

< 0.050

< 0.050

< 0.050

< 0.050

< 0.050

< 0.050

< 0.050

5,080

1,200

1,870

2,120

32.0

336

704

1,710

1,710

2,210

3,320

6,240

4,800

4,160

2,160

1,410

< 30.0

< 30.0

< 30.0

< 30.0

< 30.0

33.9

< 30.0

< 30.0

< 30.0

< 30.0

< 30.0

< 30.0

< 30.0

< 30.0

< 30.0

137

SP1 @ 4'

SP1 @ 5'

SP1 @ 6'

SP1 @ 7'

SP1 @ 8'

SP2 @ 4'

SP2 @ 5'

SP2 @ 6'

SP2 @ 7'

SP2 @ 8'

SP2 @ 9'

SP2 @ 10'

SP2 @ 11'

SP2 @ 12'

SP2 @ 13'

SP2 @ Surf.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Red Hills West 21 Fed Com #2H SWD Line NMOCD Ref. #: nAPP2120041782

NMOCD Ref. #: nAPP2120041782											
NMOO	CD Closure Cr	riteria		10	50	N/A	N/A	N/A	N/A	100	600
NMOCD	Reclamation S	Standard		10	50	N/A	N/A	N/A	N/A	100	600
				SW 840	6 8021B			a		T	4500 Cl
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SP2 @ 14'	3/3/2022	14	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SP3 @ Surf.	3/3/2022	0	In-Situ	< 0.050	< 0.300	<10.0	23.1	23.1	<10.0	23.1	2,600
SP3 @ 4'	8/10/2022	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	672
SP3 @ 5'	8/10/2022	5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	704
SP3 @ 6'	3/3/2022	6	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SP4 @ Surf.	3/3/2022	0	In-Situ	< 0.050	< 0.300	<10.0	178	178	81.6	260	1,620
SP4 @ 4'	3/3/2022	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
SP4 @ 4'	8/10/2022	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
SP4 @ 5'	8/10/2022	5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
SP4 @ 6'	8/10/2022	6	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SP4 @ 7'	8/10/2022	7	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SP5 @ Surf.	3/4/2022	0	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,520
SP5 @ 4'	3/4/2022	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SP6 @ Surf.	3/4/2022	0	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,080
SP6 @ 4'	9/2/2022	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SP6 @ 6'	9/2/2022	6	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16
SP6 @ 8'	3/4/2022	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
SP7 @ Surf.	3/4/2022	0	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,560
SP7 @ 4'	8/10/2022	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,600
SP7 @ 5'	8/10/2022	5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,720
SP7 @ 6'	3/4/2022	6	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
SP8 @ Surf.	3/4/2022	0	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,800
SP8 @ 4'	8/10/2022	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,080
SP8 @ 5'	8/10/2022	5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	736
SP8 @ 6'	8/10/2022	6	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,040
SP8 @ 7'	8/10/2022	7	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SP8 @ 8'	3/4/2022	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
OSS @ Sur.	6/16/2022	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
OSS @ 1	6/16/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
					al Character						
DFS 1 @ Surf.	5/27/2022	0	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,700
DFS 1 @ 4'	5/27/2022	4	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	992
DFS 1 @ 6'	5/27/2022	6	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,040
DFS 1 @ 8'	5/27/2022	8	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	800
DFS 1 @ 9'	5/27/2022	9	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
DFS 2 @ Surf.	5/27/2022	0	Deferral	< 0.050	< 0.300	<10.0	11.3	11.3	<10.0	11.3	592
DFS 2 @ 1'	5/27/2022	1	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
DFS 2 @ 2'	5/27/2022	2	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
DFS 2 @ 3'	5/27/2022	3	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
DFS 3 @ Surf.	5/27/2022	0	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	19,300
DFS 3 @ 3'	5/27/2022	3	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
DFS 3 @ 4'	5/27/2022	4	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0

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

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Red Hills West 21 Fed Com #2H SWD Line NMOCD Ref. #: nAPP2120041782

NMOCD Ref. #: nAPP2120041782											
NMOC	CD Closure Cr	iteria		10	50	N/A	N/A	N/A	N/A	100	600
NMOCD	Reclamation S	Standard		10	50	N/A	N/A	N/A	N/A	100	600
				SW 840	6 8021B				1	1	4500 Cl
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C_{10} - C_{28} (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
DFS 4 @ Surf.	5/27/2022	0	Deferral	< 0.050	< 0.300	<10.0	316	316	117	433	240
DFS 4 @ 1'	5/27/2022	1	Deferral	< 0.050	< 0.300	<10.0	75.8	75.8	16.6	92.4	176
DFS 4 @ 2'	5/27/2022	2	Deferral	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	272
DFS 4 @ 3'	5/27/2022	3	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
DFS 4 @ 4'	5/27/2022	4	Deferral	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	592
DFS 5 @ Surf.	5/27/2022	0	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,800
DFS 5 @ 1'	5/27/2022	1	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	816
DFS 5 @ 2'	5/27/2022	2	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,440
DFS 5 @ 3'	5/27/2022	3	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,760
DFS 5 @ 4'	5/27/2022	4	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
DFS 5 @ 6'	5/27/2022	6	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,520
DFS 5 @ 8'	5/27/2022	8	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,520
DFS 5 @ 10'	5/27/2022	10	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
DFS 5 @ 12'	5/27/2022	12	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
DFS 5 @ 14'	5/27/2022	14	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
DFS 6 @ Surf.	5/27/2022	0	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,040
DFS 6 @ 4'	5/27/2022	4	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	9,520
DFS 6 @ 6'	5/27/2022	6	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,300
DFS 6 @ 8'	5/27/2022	8	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,440
DFS 6 @ 12'	5/27/2022	12	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,710
DFS 6 @ 14'	5/27/2022	14	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,540
DFS 6 @ 16'	5/27/2022	16	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
DFS 6 @ 18'	5/27/2022	18	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
DFS 6 @ 20'	5/27/2022	20	Deferral	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
DFS 6 @ 22'	5/27/2022	22	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
NW 7	6/16/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
EW 15A	6/13/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW 15A EW 16A	6/13/2022		In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
EW 10A EW 17B	6/13/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW 17B EW 18A	6/13/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW 18A EW 19A	6/16/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
EW 19A EW 20A	6/16/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
EW 20A EW 21	6/16/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WW 16B	6/13/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
WW 17B	6/13/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
WW 18B	6/13/2022	0-4	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	640
WW 18C	6/20/2022	0-4	In-Situ	-	-	-	-	-	-	-	48.0
WW 19B	6/13/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
WW 20B	6/13/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
WW 21	6/16/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
WW 22B	6/16/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
., ., 225	5, 10, 2022	υT	III DILU	0.050	0.500	10.0	10.0	20.0	10.0	50.0	112

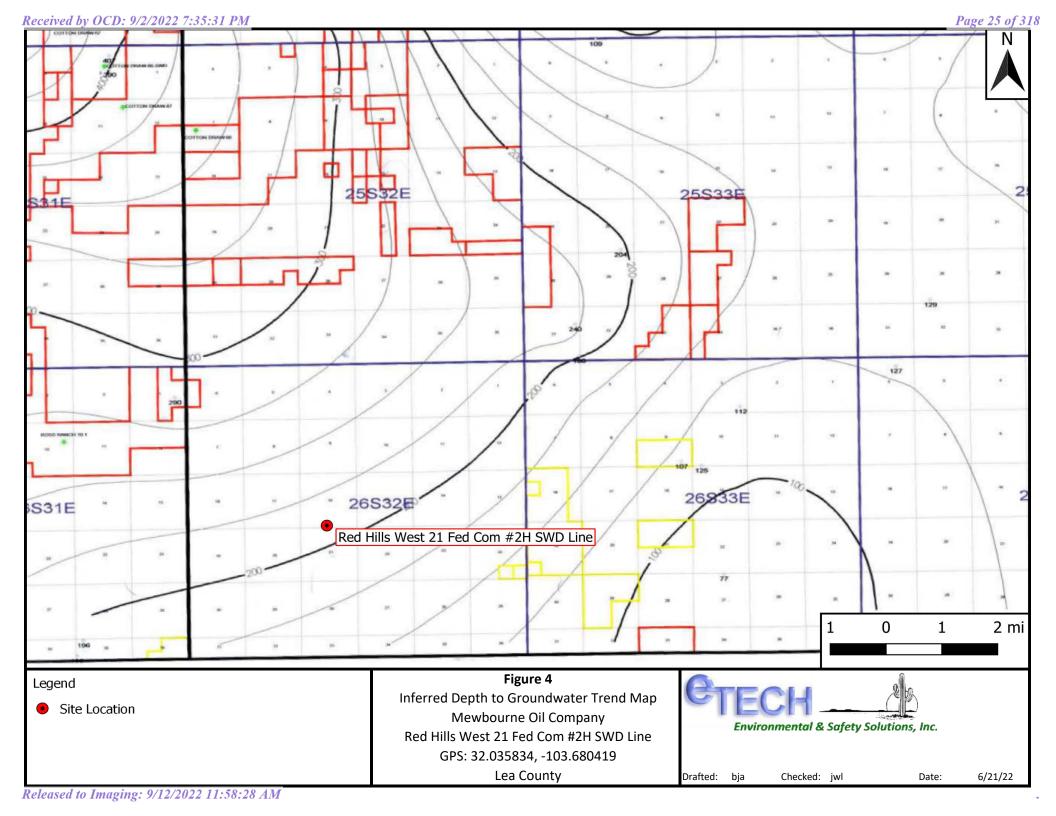
Dash (-): Sample not analyzed for that constituent.

					Table						
			Conce		· ·		hloride in	Soil			
					bourne O	-	•				
			Rec				SWD Line	e			
NMOC	CD Class of C	•4• -			Ref. #: n.	1	T T	37/4	37/4	400	600
	CD Closure Cr Reclamation S			10	50	N/A	N/A	N/A	N/A	100	600
NMOCD	Recialitation S	stanuaru		10 SW 944	50 6 8021B	N/A	N/A	N/A	N/A	100	600 4500 Cl
		ъ а	G "	5W 040	0 8021B			a GRO +			4500 CI
Sample ID	Date	Depth (Feet)	Soil Status	Benzene	BTEX	GRO C ₆ -C ₁₀	DRO C ₁₀ -C ₂₈	DRO	ORO C ₂₈ -C ₃₆	TPH C ₆ -C ₃₆	Chloride
		, ,		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	C ₆ -C ₂₈	(mg/kg)	(mg/kg)	(mg/kg)
				Confirma	L tion Samples	- South Exca	evation	(mg/kg)			
NW 1A	5/11/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 2C	5/13/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 3B	5/13/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 4	5/17/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NW 5A	5/20/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 6	5/26/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
EW 1B	5/13/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW 2B	5/13/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 3A	5/13/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW 4	5/17/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	32.0
EW 5	5/17/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 6A	5/17/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
EW 7B	5/20/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 8B	5/20/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
EW 9A	5/26/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 10B	5/26/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW 11A	5/26/2022	0-4	In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 12A	5/26/2022	0-4	In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
EW 13	6/9/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 14	6/9/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 1B	5/11/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW 2B	5/11/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
SW 3B SW 4A	5/11/2022 5/13/2022	0-4		<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW 5A	5/13/2022	0-4	In-Situ In-Situ	<0.050	<0.300	<10.0 <10.0	<10.0 <10.0	<20.0 <20.0	<10.0 <10.0	<30.0 <30.0	176 208
SW 6A	5/20/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 7A	5/20/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 8A	5/26/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 9B	5/26/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 10	5/26/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
SW 11C	5/26/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SW 12	6/9/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 13	6/9/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW 1E	5/11/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 2A	5/11/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 3B	5/13/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW 4	5/13/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 5	5/17/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
WW 6	5/17/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW 7	5/17/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 8B	5/20/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0

 $\label{eq:Dash of Constituent} \textbf{Dash (-): Sample not analyzed for that constituent}.$

			Compan	atuatiana	Table		hlauida iu	Call					
Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company													
Red Hills West 21 Fed Com #2H SWD Line													
NMOCD Ref. #: nAPP2120041782													
NMOCD Closure Criteria 10 50 N/A N/A N/A N/A 100 600													
NMOCD	Reclamation S	Standard		10	50	N/A	N/A	N/A	N/A	100	600		
SW 846 8021B a											4500 Cl		
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)		
WW 9A	5/20/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208		
WW 10	5/26/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128		
WW 11B	5/26/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0		
WW 12A	5/26/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0		
WW 13A	5/26/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528		
WW 14	5/26/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208		
WW 15	5/26/2022	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512		

Appendix A Depth to Groundwater Information





Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

		POD													
		Sub-		Q	Q	Q								V	Vater
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	\mathbf{X}	Y	DistanceDep	othWellDep	thWater C	olumn
<u>C 02271</u>	R	CUB	LE		2	3	21	26S	32E	624449	3544111* 🌕	1068	150	125	25
C 03595 POD1		CUB	LE	4	2	3	21	26S	32E	624423	3544045 🌑	1136	280	180	100
<u>C 02271 POD2</u>		CUB	LE	3	2	3	21	26S	32E	624348	3544010*	1185	270	250	20
<u>C 02323</u>		C	LE	3	2	3	21	26S	32E	624348	3544010*	1185	405	405	0
C 03537 POD1		CUB	LE	3	2	3	21	26S	32E	624250	3543985	1233	850		

Average Depth to Water:

240 feet

Minimum Depth:

125 feet

Maximum Depth:

405 feet

Record Count: 5

<u>UTMNAD83 Radius Search (in meters):</u>

Easting (X): 624597.83 **Northing (Y):** 3545168.8 **Radius:** 1610

*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.

6/21/22 2:16 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X

Y

C 02271

2 3 21 26S 32E

624449 3544111*

9

Driller License:

Driller Company:

Driller Name:

Drill Finish Date:

12/31/1909

Plug Date:

Drill Start Date: Log File Date:

PCW Rcv Date:

Sourc

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield: 15 GPM

Casing Size:

8.00

UNKNOWN

Depth Well:

150 feet

Depth Water:

125 feet

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.

2/9/22 9:32 AM

^{*}UTM location was derived from PLSS - see Help



Point of Diversion Summary

26S 32E

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng

C 03595 POD1 21 624423 3544045

Driller License:

Driller Company:

NOT WORKING FOR HIRE--SIRMAN DRILLING

AND CONSTRUC

Driller Name: Drill Start Date:

09/30/2013

1654

Drill Finish Date:

09/30/2013

Plug Date:

Log File Date:

10/29/2013

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Shallow

Casing Size:

6.00 Depth Well:

280 feet

Depth Water:

180 feet

Water Bearing Stratifications:

Top Bottom Description

160

200

200 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top **Bottom**

240

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2/9/22 9:32 AM



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng

X

C 02271 POD2

21 26S 32E

3544010*

Driller License:

208

Driller Company: VAN NOY, W.L.

Driller Name:

W.L. VAN NOY

Drill Finish Date: 09/09/1992

Plug Date:

Drill Start Date: Log File Date:

08/28/1992 10/28/1992

PCW Rcv Date:

Source:

624348

Shallow

Pump Type:

SUBMER

Pipe Discharge Size:

Estimated Yield:

15 GPM

Casing Size:

6.38

Depth Well:

270 feet

Depth Water:

250 feet

Water Bearing Stratifications:

Top Bottom Description

225

265 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top **Bottom**

205 265

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2/9/22 9:32 AM

^{*}UTM location was derived from PLSS - see Help



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng

C 02323

21 26S 32E

624348 3544010*

Driller License: 1292 **Driller Company:**

BENTLE WATER WELL SERVICE

Driller Name:

BENTLE, BILLY L.

Drill Finish Date:

06/16/1993

Plug Date:

Drill Start Date: Log File Date:

05/25/1993 06/24/1993

PCW Rcv Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

405 feet

Depth Water: 405 feet

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.

2/9/22 9:32 AM

^{*}UTM location was derived from PLSS - see Help



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

C 03537 POD1

Q64 Q16 Q4 Sec Tws Rng

3 21 26S 32E 624250 3543985

Driller License:

Driller Company:

Driller Name:

Drill Start Date: Drill Finish Date:

Plug Date:

Log File Date:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

8.63

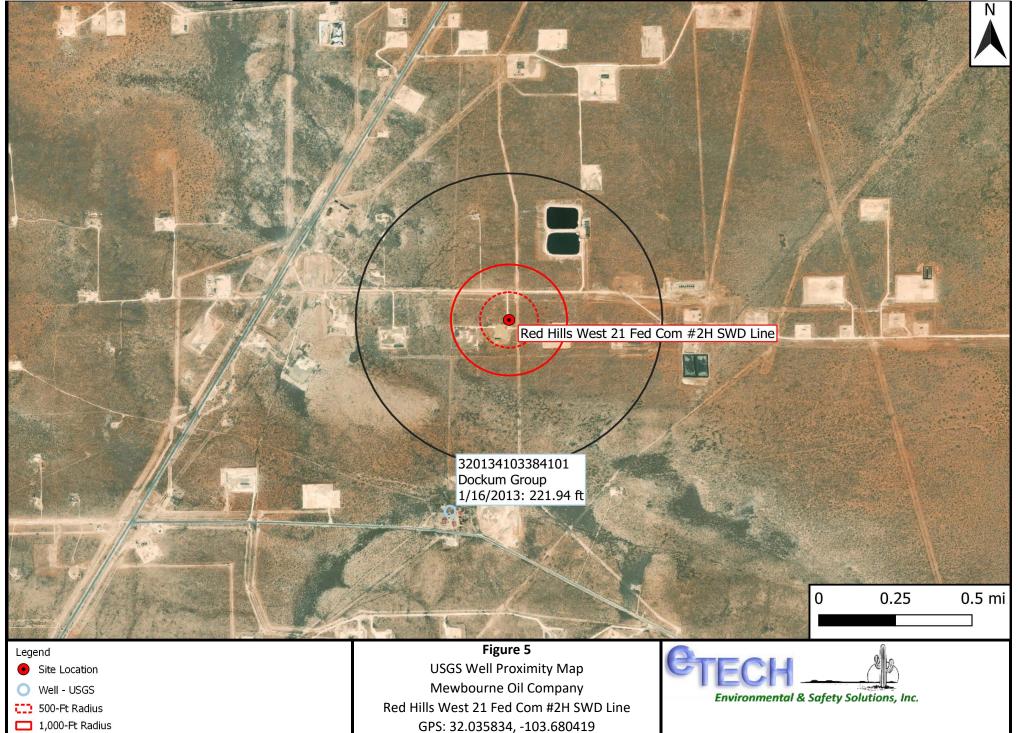
Depth Well:

850 feet

Depth Water:

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.

2/9/22 9:32 AM



Lea County

Drafted: bja

Checked: jwl

Date:

6/21/22

■ 0.5-Mi Radius

Click for News Bulletins

Groundwater levels for the Nation

Table of data Tab-separated data

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usqs site no list =

• 320134103384101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320134103384101 26S.32E.21.32311

Lea County, New Mexico Latitude 32°01'35.2", Longitude 103°41'01.8" NAD83 Land-surface elevation 3,130 feet above NAVD88

The depth of the well is 405 feet below land surface.

The depth of the hole is 405 feet below land surface.

This well is completed in the Pecos River Basin alluvial aguifer (N100PCSRVR) national aguifer.

This well is completed in the Dockum Group (231DCKM) local aguifer.

Output formats

<u>Graph of data</u>													
Reselect period	select period												
Date \$	Time \$? Water- level ≎ date- time accuracy	? Parameter [‡]	Water level, feet below land surface	Water level, feet above \$pecific vertical datum	Referenced vertical \$\datum\$? Status	? Method of measurement	? Measuring [‡] agency	? Source of measurement	? Water- level approval status		
1993-06-16		D	72019	405.00			1	L			Α		
2013-01-16	19:10 UTC	m	72019	221.94			Р	S	USGS	S	Α		

Received by OCD: 9/2/2022 7:35:31 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
Status	Р	Pumping
Method of measurement	L	Interpreted from geophysical logs.
Method of measurement	S	Steel-tape measurement.
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: 2022-04-11 14:04:53 EDT

0.43 0.32 nadww01

USA.gov

Appendix B Field Data

Received by OCD: 9/2/2022 7:35:31 PM

June 22, 2022 at 10:23 / 10 + 32.035033, -103.680391

T	ECH		2/3	
	Environmental	& Safety	Solutions,	Inc.

Sample Log

Date:

Sample ID PID/Odor Chloride Conc. DFS #1 @ Surf	oject: oject Number:		Latitude:	Longitude:	
DES #1 (B SUPE	Sample ID	PID/Odor	Chloride Conc.		GPS
1348		_			
DES #1 @ 2					
DES #1 @ 3 DES #1 @ 4 DES #1 @ 5 DES #1 @ 1 DES #1 @ 1 DES #1 @ 1 DES #1 @ 7 DES #1	DES#182	_			
DFS #1 @ 4	DESHIBS	_			
DF5 #1 @ \$					
DFS #1 @ 7 - 70 4 DFS #1 @ 7 - 70 4 DFS #1 @ 9/F - 648 DFS #1 @ 9/F - 440 DFS #6@ 2 - 2552 Over DFS #6@ 3 - 2552 over DFS #6@ 3 - 2552 over DFS #6@ 3 - 2552 over DFS #6@ 6 - 2552 over DFS #6@ 1 - 1772 DFS #6@ 6 - 2552 over DFS #6@ 10 - 1,772 DFS #6@ 10 - 1,772 DFS #6@ 10 - 1,772 DFS #6@ 10 - 1,758 DFS #6@ 10 - 536 DFS #6@ 22 - 988 DFS #6@ 22 - 988 DFS #3@ 3 - 536 DFS #3@ 5 - 536	DESHIE S	-			
DFS #1 = 1 & 7 - 70 4 DFS #1 = 1 & 8 + - 648 DFS #1 = 1 & 9 + - 440 DFS #1 &		_			
DFS #1 = 3 8 F	OFS #10 7	-			
DESH 6 @ SWE 2 552 OVEY DESH 6 @ SWE 1	DFS #1 ~ 8 85				
DFS#6@5wf 2552 Over DFS#6@1 - 1772 DFS#6@2 - 2552 Over DFS#6@3 - 2552 over DFS#6@6 - 2188 DFS#6@6 - 2188 DFS#6@10 - 1272 DFS#6@10 - 1272 DFS#6@10 - 1272 DFS#6@10 - 1257 DFS#6@22 - 1258 DFS#3@3 - 2536 DFS#3@1 - 1259 DFS#3@2 - 1250 DFS#3@3 - 2536 DFS#3@3 - 2536 DFS#3@5 - 3168 D	DPS tel on 9for	_	440		
DF3#6@ 2 - 1772 DF5#6@ 2 - 2552 OVER DF5#6@ 0 - 2552 OVER DF5#6@ 0 - 2552 OVER DF5#6@ 0 - 2552 OVER DF5#6@ 10 - 2550 DF5#6@ 20 - 536 DF5#6@ 20 - 536 DF5#6@ 20 - 536 DF5#3@ 1 - 0VER 2508 DF5#3@ 2 - 0VER 2508 DF5#3@ 2 - 0VER 2508 DF5#3@ 3 - 0VER 2508 DF5#3@ 3 - 0VER 2508 DF5#3@ 1 - 0VER 2508 DF5#3@ 2 - 0VER 2508 DF5#3@ 3 - 0VER 2508 DF5#3@ 5 - 0VER 2508					
DF3#6@ 2 - 1772 DF5#6@ 2 - 2552 OVER DF5#6@ 0 - 2552 OVER DF5#6@ 0 - 2552 OVER DF5#6@ 0 - 2552 OVER DF5#6@ 10 - 2556 DF5#6@ 10 - 2566 DF5#6@ 10 - 2566 DF5#6@ 20 - 536 DF5#6@ 20 - 536 DF5#3@ 1 - 0VER 2506 DF5#3@ 2 - 0VER 2506 DF5#3@ 2 - 0VER 2506 DF5#3@ 3 - 3566 DF5#3@ 2 - 0VER 2506 DF5#3@ 2 - 0VER 2506 DF5#3@ 3 - 3566 DF5#3@ 3 - 3566 DF5#3@ 3 - 3566 DF5#3@ 5 - 316					
DF3#6@ 2 - 1772 DF5#6@ 2 - 2552 OVER DF5#6@ 0 - 2552 OVER DF5#6@ 0 - 2552 OVER DF5#6@ 0 - 2552 OVER DF5#6@ 10 - 2556 DF5#6@ 10 - 2566 DF5#6@ 20 - 536 DF5#6@ 20 - 536 DF5#3@ 1 - 0VER 2506 DF5#3@ 2 - 0VER 2506 DF5#3@ 2 - 0VER 2506 DF5#3@ 3 - 3566 DF5#3@ 5 - 316	0.00				
DF5#6@2 DF5#6@2 DF5#6@0 DF5#6@0 DF5#6@0 DF5#6@6 DF5#6@6 DF5#6@8 DF5#6@10 DF5#6@20 DF5#6@20 DF5#6@20 DF5#3@1 DF5#3@2 DF5#3@3 DF5#3@3 DF5#3@3 DF5#3@5 DF5#5#3@5 DF5#5#3@5 DF5#5#3@5 DF5#5#5 DF5#5 DF5#6 DF5#5 D	DESHE @ SURF	_	2552 Over		
DFS#6@ 2 DFS#6@ 3 DFS#6@ 0 DFS#6@ 0 DFS#6@ 0 DFS#6@ 10 DFS#6@ 20 DFS#6	DF2#6@1	-	1772		
1552 OVER DESTROY D		_	2552 Over		
DESTAGO		_	2552 over		
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DESTIGNO DESTIG	DF57166 6	_			
DF5#6@12 — 1657 DF5#6@16 — 758 DF5#6@18 — 640 DF5#6@22 — 488 DF5#3@5wf — Over 2508 DF5#3@2 — 1012 OF5#3@3 — 536 DF5#3@3 — 536 DF5#3@5 — 188 DF5#3@4 — 188		-	2188		
DFS#6@16 - 756 DFS#6@18 - 640 DFS#6@20 - 536 DFS#6@22 - 488 DFS#3@5 - 1912 DFS#3@2 - 1912 DFS#3@2 - 0ver 2500 DFS#3@3 - 536 DFS#3@6 3 - 536	DC5#4010		27קו		
DFS#6@18 - 640 DFS#6@20 - 536 DFS#6@22 - 488 DFS#3@5 - 1917 OFS#3@2 - 1917 OFS#3@2 - 0Ver 2500 DFS#3@3 - 536 DFS#3@6 3 - 536	DES HILL III		1,657	1 30	
DFS#6@12 - 640 DFS#6@22 - 988 DFS#3@Suvf - Over 2506 DFS#3@1 - 1811 DFS#3@2 - Over 2500 DFS#3@3 - 536 DFS#3@4 - 188 DFS#3@5 - 316	DECHIA	-	1076		
DFS#16@20 — 536 DFS#16@22 — 488 DFS#3@3 — 1917 DFS#3@2 — 0/er 2500 DFS#3@3 — 536 DFS#3@4 — 188 DFS#3@5 — 188	Marie Control of the		756		
DFS#3@Surf — Over 2506 DFS#3@2 DFS#3@2 OFS#3@3 DFS#3@3 DFS#3@4 DFS#3@5 316			640		
DFS#3@SUYF — OVEC 2506 DFS#3@1 — IDIT OFS#3@2 — OVEC 2506 DFS#3@2 — OVEC 2506 DFS#3@3 — IBIT OFS#3@3 — IBIT OFS#3@5 — IB			5 36		
DES#3@ 2	7,31,000		988		
DES#3@ 2	DES#3/2 SUVE		av- c a c		
DFS#3@3 DFS#3@4 DFS#3@5 316	D C 4 2 10 1		Over 2508		
DFS#3@4 188 DFS#3@5 316	0F5#3@2		MIA COST		-
DF54765	DFS#3@3		F1/ 1500		
DF54765	DFS#3@4		198	240	1
	DES#3@5		314	1	
Sample Point = SP #1 @ ## etc					
Sample Point = SP #1 @ ## etc					Chil
	Sample Point = SP #1 @ ## etc				1

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Area

Released to Imaging: 9/12/2022 11:58:28 AM

Received by OCD: 9/2/2022 7:35:31 PM

June 22, 2022 at 10:23 AM +32.035033,-103.680391

Environmental & Safety Solutions, Inc.
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Sample Log

Date.			
Longitu	da		

rioject:			
Project Number:	Latitude:	Longitude:	

Sample ID	PID/Odor	Chloride Conc.	GPS
DES 4 @ SULT	PID/Oddi	606	Ur3
DFS 4 @ 1			
DF54@2		316	
DF5 4 @ 3			1
DF54@4		356	
010104		7 76	
DFS 5 @ Sor	_	2 500000	
DFS 5 @ 1		2500 Over	
DFS 5 @ 2		948	
DF55@3		7,500 aver	
DF55@4		1006	
DFS 5@6		2500	
DF55@8		1444	
DF35@10	-	640	
DF\$5@12	-	644	
Drs 5@12		356	
	1		
DFS 2 Q SUIF		201)	
DFS 20 SUFF		100	
DFSQQZ		160	
DFS 203		716	

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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



roject:

Sample Log

Date:

Red Hills West 21 Fed	Com 2H Battery
-----------------------	----------------

roject Number: 15507 Latitude:

32.03517

Longitude:

-103.68083

	Chloride Conc.	
PID/Odor	1204	
	900	
	2584	
	160	
		Name and Parks
	628 / 100	
	317_	
Nonve	534	
	996	
11-10	2584	
		+
		ω
	740	+32
The second liverage and the second		
NONE	388	3
Wante		35
NONE	315	50
None	524	<u> </u>
None	217	<u> </u>
None	524	33
Nolle	1.596	
Nonce	1,704	0
None	432	3
NONL	900	5
	128	0)
THE R. P. LEWIS CO., LANSING, MICH.	25.84	\sim
etc	Tact T	
	rest French = TT #1 @ ##	Resamples= SP #1 @ 5b or S
	None None None None None None None None	None 648 None 2,228 None 900 Newe 900 None 140 None 1204 None 2,584 None 248 None 524 None 524 None 312 None 328 None 328 None 318 None 318 None 318 None 324 None 328 None 324 None 328 None 324 None 328 None 320 None 320

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	JUNE 22, 2022 at 10.23 AN	
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Stockpile = Stockpile #1 GPS Sample Points, Center of Comp Ar

Sample Log

Project: Red Hill's West 21 Fed com 2H

Project Number:

15007 Latitude: 32.03517

Date:

Longitude: 103.68083

Sample ID	PID/Odor	Chloride Conc.	GPS
EWBB	None	356	
WW5B	None	400	
EW5A	None	1020	
WWLA	None	2557	
EW6B	Nowe	432	
WW6B	Nowe	400	
EW6	None	356	
WW7A	NONE	316	
SW6A	NONE	400	
WW8A	Nowe	696	
h141813	Nowe	489	
EV7A	NoNe	840	
EW713	Nowe	244	
WWAA	None	400	
EW8A NWSA	None	640	- 111
IVW SA	None	488	
SWBA EW80	None	244	
EWAH	NINE	400	
WWIOK	wowo	400	
WWIIA	Nono	536	
WWIIB	None	696	+
EWIDA	NONE	488	3
SWBA	None	696 494	N (
WWIZA	Nowe	356	2.0
EVLOIS	None	494	.03
EW II A	VONE	460	35
51/9 A	None	1096	350
54/9B	Nowe	4/88	3
EW12	NONE	356	33,
4413	MONE	466	ω
WULLA	1000	1752	
WWI4R	None	1266	7
NWBA	Nove	1,540	0
WWI4C	None -	880	.00
WW/8/	None	646	<u> </u>
Sample Point = SP #1 @ ## etc	-		68
Floor = FL #1 etc		Test Trench = TT #1 @ ##	Resamples= SP #1 @ 5b or SW #1b
Sidewall = SW #1 etc		Refusal = SP #1 @ 4'-R	Stackette average #16

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

er	ECH		Also.	
	Environmental	& Safety	Solutions,	Inc.

Sample Log

Date:	La constitución de la constituci

PI	-0	10	-1	
PI	U	ıe	u	٠.

Project Number:

Latitude:

Longitude:

Sample ID	PID/Odor	Chloride Conc.	GP
NW6b	MANIE	756	
11/16C	None	782	
NILED	NoNe	717	
14 SD 14	-	317	
Sw S 10	_	576	
WWISA	_	388	
ShellA	_	1,544	
CILIIR	_	1,260	
SIZIIC	-	574	-
5W124	_	212	
SW/3	-	406	
Ews 13	_	168	
Ews 14		144	
WW 16 A	_	1772	
Eh/154	_	180	
WW 16 B		1260	
WW 16C		444	
WildFIA		880	Per
WW17B		536	ALL DE LA COLUMN D
EW 16 A		888	C
EN16B		588	+ 5
EWITA		588	+ 5
EW18A		589	N C
WW19 A		880	
WW19 B		949	3.1
WWZOA	-	444	(5
WWZOB		588	
EW19A		328	3
EW ZOA		886	ω
WW 2/B	-	440	
WWZZA		1/96	7 5
FW21A		192	O C
WW22B		356	ω -
NW7A		356	6.
WW 18	0	444	00 N

Floor = FL #1 etc

Released to Imaging 19842/2022/14:58:28 AM

Refusal = SP #1 @ 4'-R Soil Intended to be Deferred - SQ #1 @ 41 In-Si

Appendix C Photographic Log

Photo Number:

1

Photo Direction: North

Photo Description:

View of the affected area.



Photo Number:

2

Photo Direction:

North

Photo Description:

View of the affected area.



Photo Number:

3

Photo Direction: Southwest

Photo Description:

View of the affected area.



Photo Number:

4

Photo Direction:

Northwest

Photo Description:

View of the affected area.



Photo Number:

5

Photo Direction: West-Southwest

Photo Description:

View of the affected area.



Photo Number:

6

Photo Direction:

North

Photo Description:

View of the North Excavation.



Photo Number:

7

Photo Direction: West-Southwest

Photo Description:

View of the South Excavation.



Photo Number:

8

Photo Direction: Southwest

Photo Description:

View of the South Excavation.



Photo Number:

9

Photo Direction: South

Photo Description:

View of the South Excavation.



Photo Number:

10

Photo Direction:

East

Photo Description:

View of the South Excavation.

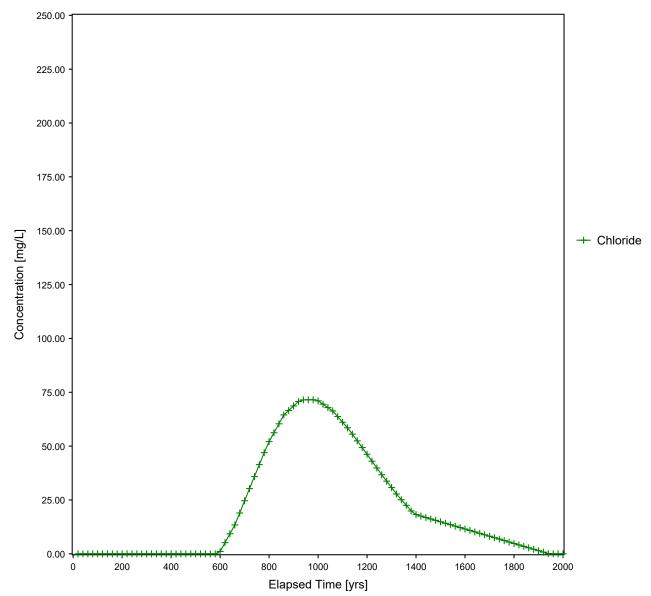


Appendix D Multimedia Exposure Assessment Model (MULTIMED)

North Excavation

Received by OCD: 9/2/2022 7:35:31 PM

Chloride Concentration At The Receptor Well (North Excavation - Lined) Mewbourne Oil Company Red Hills West 21 Fed Com #2H SWD Line



```
MULTIMED V1.01 DATE OF CALCULATIONS: 1-SEP-2022 TIME: 14: 3:41
```

```
ENVIRONMENTAL PROTECTION AGENCY
                                      EXPOSURE ASSESSMENT
Imagin
                                         MULTIMEDIA MODEL
                                       MULTIMED (Version 1.50, 2005)
Stitched to Stehfest algorithm to avoid numerical problems
with Convolution algorithm. Problems were caused by
high source decay rate. Everything ok now, execution continuing...
Ren options
11:58:28
Mewbourne Oil Company
Red Hills West 21 Fed Com #2H SWD Line
Chemical simulated is Chloride
Option Chosen
                                    Saturated and unsaturated zone models
Run was
                                    DETERMIN
Infiltration Specified By User: 7.620E-03 m/yr
Run was transient
Well Times: Find Maximium Concentration
Reject runs if Y coordinate outside plume
Reject runs if Z coordinate outside plume
Gaussian source used in saturated zone model
UNSATURATED ZONE FLOW MODEL PARAMETERS
(input parameter description and value)
       - Total number of nodal points
                                                    240
NP
       - Number of different porous materials
                                                    1
NMAT
KPROP - Van Genuchten or Brooks and Corey
                                                     1
                                                     1
IMSHGN - Spatial discretization option
NVFLAYR - Number of layers in flow model
OPTIONS CHOSEN
```

Van Genuchten functional coefficients User defined coordinate system

Layer information

LAYER NO. LAYER THICKNESS MATERIAL PROPERTY

. 1 32.90 1

Received by OCD: 9/2/2022 7:35:31 PM

DATA FOR MATERIAL 1

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	DISTRIBUTION PARAMETERS		LI	MITS	D :
			MEAN	STD DEV	MIN	MAX	9/2
Saturated hydraulic conductivity	 cm/hr	CONSTANT	3.60	-999 .	-999.	-999 .	202
Unsaturated zone porosity		CONSTANT	0.250	-999.	-999.	-999.	12
Air entry pressure head	m	CONSTANT	0.700	-999.	-999.	-999.	:3
Depth of the unsaturated zone	m	CONSTANT	32.9	0.000	0.000	0.000	5:3

DATA FOR MATERIAL 1

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS DISTRIBUTION		PARAM	 ETERS	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.

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	1
N	_	Stehfest terms or number of increments	18
NTEL	_	Points in Lagrangian interpolation	3
NGPTS	_	Number of Gauss points	104
NIT	_	Convolution integral segments	2
IBOUND	_	Type of boundary condition	3
ITSGEN	_	Time values generated or input	1
TMAX	_	Max simulation time	0.0
WTFUN	-	Weighting factor	1.2

OPTIONS CHOSEN

Stehfest numerical inversion algorithm Exponentially decaying continuous source Computer generated times for computing concentrations

ige 50 of 31

DATA FOR LAYER

VADOSE TRANSPORT VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARA	PARAMETERS		MITS
			MEAN	STD DEV	MIN	MAX
nickness of layer	m	CONSTANT	32.9	-999 .	-999 .	-999 .
ongitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.
ercent organic matter		CONSTANT	0.000	-999.	-999.	-999.
sulk density of soil for layer	g/cc	CONSTANT	1.99	-999.	-999.	-999.
Biological decay coefficient	1/yr	CONSTANT	0.000	-999.	-999.	-999.

CHEMICAL SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARA	PARAMETERS		MITS
			MEAN	STD DEV	MIN	MAX
Solid phase decay coefficient	1/yr	DERIVED	-999 .	-999 .	-999 .	-999 .
Dissolved phase decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.
Overall chemical decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.
Acid catalyzed hydrolysis rate	l/M-yr	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	C	CONSTANT	25.0	-999.	-999.	-999.
Normalized distribution coefficient	ml/g	CONSTANT	0.000	-999.	-999.	-999.
Distribution coefficient		DERIVED	-999.	-999.	-999.	-999.
Biodegradation coefficient (sat. zone)	1/yr	CONSTANT	0.000	-999.	-999.	-999.
Air diffusion coefficient	cm2/s	CONSTANT	-999.	-999.	-999.	-999.
Reference temperature for air diffusion	С	CONSTANT	-999.	-999.	-999.	-999.
Molecular weight	g/M	CONSTANT	-999.	-999.	-999.	-999.
Mole fraction of solute		CONSTANT	-999.	-999.	-999.	-999.
apor 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	PARAME	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX	
Infiltration rate	m/yr	CONSTANT	0.762E-02	-999 .	-999 .	-999 .	
Area of waste disposal unit	m^2	CONSTANT	567.	-999.	-999.	-999.	
Duration of pulse	yr	DERIVED	0.100E-08	-999.	-999.	-999.	
Spread of contaminant source	m	DERIVED	-999.	-999.	-999.	-999.	
Recharge rate	m/yr	CONSTANT	0.000	-999.	-999.	-999.	
Source decay constant	1/yr	CONSTANT	0.250E-01	0.000	0.000	0.000	
Initial concentration at landfill	mq/l	CONSTANT	0.624E+04	-999.	-999.	-999.	

Length scale of facility -999. -999. -999. -999. m DERIVED Width scale of facility DERIVED -999. -999. -999. -999. m Near field dilution 1.00 0.000 0.000 1.00 DERIVED

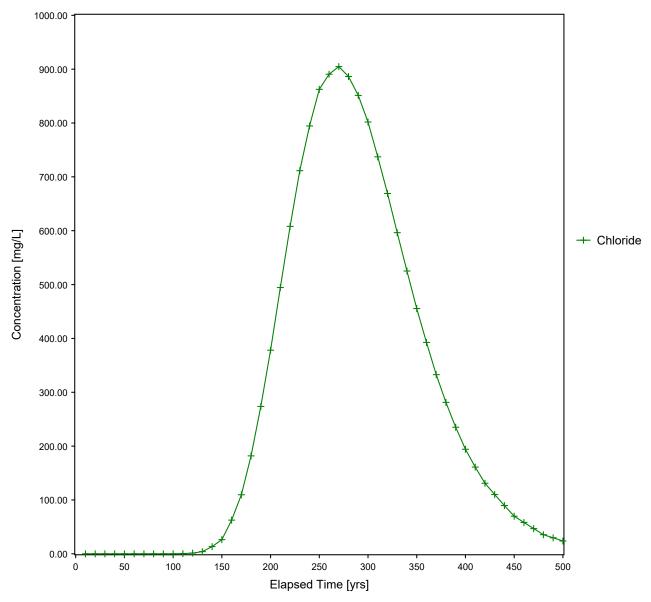
AQUIFER SPECIFIC VARIABLES

Width scale of facility Near field dilution	m	DERIVED DERIVED	-999. 1.00	-999. 0.000	-999. 0.000	-999. 1.00	Rec
	AQUIFE	R SPECIFIC VARIABLES	S				Received by
							1 by 0
VARIABLE NAME	UNITS DISTRIBUTION		PARA	METERS	LI	 MITS	·Ĉ
			MEAN	STD DEV	MIN	MAX	9/2/
Particle diameter		CONSTANT	-999 .	-999 .	-999 .	-999 .	202
Aquifer porosity		CONSTANT	0.300	-999.	-999.	-999.	10
Bulk density	g/cc	CONSTANT	1.86	-999.	-999.	-999.	:3
Aquifer thickness	m	CONSTANT	6.10	-999.	-999.	-999.	7:35:3
Source thickness (mixing zone depth)	m	DERIVED	-999.	-999.	-999.	-999.	31
Conductivity (hydraulic)	m/yr	CONSTANT	315.	-999.	-999.	-999.	P
Gradient (hydraulic)		CONSTANT	0.300E-0	12 -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.	
рН		CONSTANT	7.00	-999.	-999.	-999.	
Organic carbon content (fraction)		CONSTANT	0.000	-999.	-999.	-999.	
Well distance from site	m	CONSTANT	1.00	-999.	-999.	-999.	
Angle off center	degree	CONSTANT	0.000	-999.	-999.	-999.	
Well vertical distance	m	CONSTANT	0.000	-999.	-999.	-999.	

MAXIMUM WELL CONCENTRATION IS 71.58 AT 993 YEARS

Received by OCD: 9/2/2022 7:35:31 PM

Chloride Concentration At The Receptor Well (North Excavation - Unlined) Mewbourne Oil Company Red Hills West 21 Fed Com #2H SWD Line



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MULTIMED V1.01 DATE OF CALCULATIONS: 1-SEP-2022 TIME: 14:10:37
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U.S. ENVIRONMENTAL PROTECTION AGENCY

EXPOSURE ASSESSMENT

MULTIMEDIA MODEL

MULTIMED (Version 1.50, 2005)

Released to Imaging: 912/2022

Mewbourne Oil Company

Rad Hills West 21 Fed Com #2H SWD Line

Chemical simulated is Chloride

Option Chosen Saturated and unsaturated zone models

Run was DETERMIN

Infiltration Specified By User: 3.048E-02 m/yr

Run was transient

Well Times: Find Maximium Concentration Reject runs if Y coordinate outside plume Reject runs if Z coordinate outside plume Gaussian source used in saturated zone model

UNSATURATED ZONE FLOW MODEL PARAMETERS (input parameter description and value)

NP - Total number of nodal points 240

NMAT - Number of different porous materials 1

KPROP - Van Genuchten or Brooks and Corey 1

IMSHGN - Spatial discretization option 1

NVFLAYR - Number of layers in flow model 1

OPTIONS CHOSEN

Van Genuchten functional coefficients User defined coordinate system

Layer information

LAYER NO. LAYER THICKNESS MATERIAL PROPERTY

1 32.90 1

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARA	METERS	LIMITS		
			MEAN	STD DEV	MIN	MAX	
Saturated hydraulic conductivity	cm/hr	CONSTANT	3.60	-999 .	-999 .	-999 .	
Insaturated 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	32.9	0.000	0.000	0.000	

DATA FOR MATERIAL 1

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	RIBUTION PARAME		ETERS 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.	

UNSATURATED ZONE TRANSPORT MODEL PARAMETERS

NLAY	-	Number of different layers used	1
NTSTPS	_	Number of time values concentration calc	40
DUMMY	_	Not presently used	1
ISOL	_	Type of scheme used in unsaturated zone	2
N	_	Stehfest terms or number of increments	18
NTEL	-	Points in Lagrangian interpolation	3
NGPTS	-	Number of Gauss points	104
NIT	_	Convolution integral segments	2
IBOUND	-	Type of boundary condition	3
ITSGEN	_	Time values generated or input	1
TMAX	_	Max simulation time	0.0
WTFUN	_	Weighting factor	1.2

OPTIONS CHOSEN

Convolution integral approach Exponentially decaying continuous source Computer generated times for computing concentrations

DATA FOR LAYER 1

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS		
			MEAN	STD DEV	MIN	MAX	
Thickness of layer	 m	CONSTANT	32.9	-999 .	-999 .	-999 .	
Longitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.	
Percent organic matter		CONSTANT	0.000	-999.	-999.	-999.	
Bulk density of soil for layer	g/cc	CONSTANT	1.99	-999.	-999.	-999.	
Biological decay coefficient	1/yr	CONSTANT	0.000	-999.	-999.	-999.	

CHEMICAL SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARA	METERS	LI	MITS	PM	
			MEAN	STD DEV	MIN	MAX	×	
Solid phase decay coefficient	1/yr	DERIVED	-999 .	-999 .	-999 .	-999 .		
Dissolved phase decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.		
Overall chemical decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.		
Acid catalyzed hydrolysis rate	1/M-yr	CONSTANT	0.000	-999.	-999.	-999.		
Neutral hydrolysis rate constant	1/yr	CONSTANT	0.000	-999.	-999.	-999.		
Base catalyzed hydrolysis rate	1/M-yr	CONSTANT	0.000	-999.	-999.	-999.		
Reference temperature	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	С	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 a	tm-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	 ETERS	LI	MITS	
			MEAN	STD DEV	MIN	MAX	
Infiltration rate	m/yr	CONSTANT	0.305E-01	-999.	-999 .	-999 .	
Area of waste disposal unit	m^2	CONSTANT	567.	-999.	-999.	-999.	
Duration of pulse	yr	DERIVED	0.100E-08	-999.	-999.	-999.	
Spread of contaminant source	m	DERIVED	-999.	-999.	-999.	-999.	
Recharge rate	m/yr	CONSTANT	0.000	-999.	-999.	-999.	Page
Source decay constant	1/yr	CONSTANT	0.250E-01	0.000	0.000	0.000	80
Initial concentration at landfill	mg/l	CONSTANT	0.624E+04	-999.	-999.	-999.	56
Length scale of facility	m	DERIVED	-999.	-999.	-999.	-999.	of
Width scale of facility	m	DERIVED	-999.	-999.	-999.	-999.	S
Near field dilution		DERIVED	1.00	0.000	0.000	1.00	18

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VARIABLE NAME	UNITS	DISTRIBUTION	PARA	METERS	 LI	d by	
			MEAN	STD DEV	MIN	MAX	-
Particle diameter		CONSTANT	 -999.	-999.	-999 .	-999.	OCD:
Aquifer porosity		CONSTANT	0.300	-999.	-999.	-999.	9/
Bulk density	g/cc	CONSTANT	1.86	-999.	-999.	-999.	9/2/2022
Aquifer thickness	m	CONSTANT	6.10	-999.	-999.	-999.	02
Source thickness (mixing zone depth)	m	DERIVED	-999.	-999.	-999.	-999.	
Conductivity (hydraulic)	m/yr	CONSTANT	315.	-999.	-999.	-999.	:3
Gradient (hydraulic)		CONSTANT	0.300E-0	2 -999.	-999.	-999.	7:35:31
Groundwater seepage velocity	m/yr	DERIVED	-999.	-999.	-999.	-999.	
Retardation coefficient		DERIVED	-999.	-999.	-999.	-999.	PM
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.	
рН		CONSTANT	7.00	-999.	-999.	-999.	
Organic carbon content (fraction)		CONSTANT	0.000	-999.	-999.	-999.	
Well distance from site	m	CONSTANT	1.00	-999.	-999.	-999.	
Angle off center	degree	CONSTANT	0.000	-999.	-999.	-999.	
Well vertical distance	m	CONSTANT	0.000	-999.	-999.	-999.	

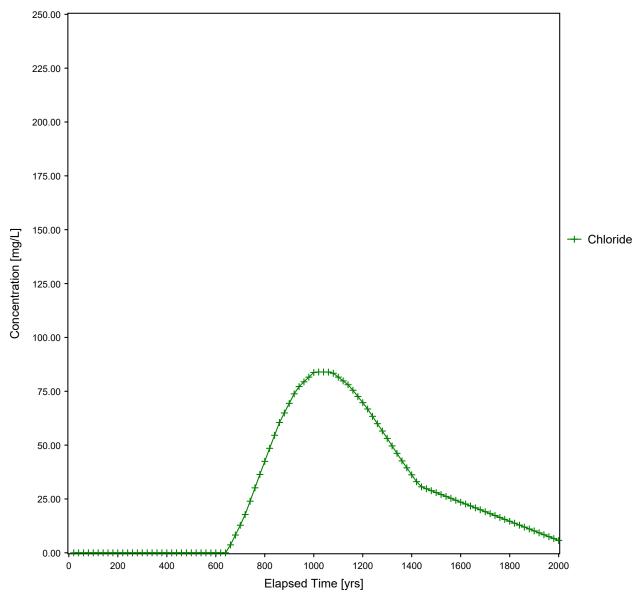
MAXIMUM WELL CONCENTRATION IS 908.8 AT 268 YEARS

Appendix E Multimedia Exposure Assessment Model (MULTIMED)

South Excavation

Received by OCD: 9/2/2022 7:35:31 PM

Chloride Concentration At The Receptor Well (South Excavation - Lined) Mewbourne Oil Company Red Hills West 21 Fed Com #2H SWD Line



```
MULTIMED V1.01
                  DATE OF CALCULATIONS: 1-SEP-2022 TIME: 14:15: 6
                              ENVIRONMENTAL PROTECTION AGENCY
                                    EXPOSURE ASSESSMENT
Imagin
                                       MULTIMEDIA MODEL
                                     MULTIMED (Version 1.50, 2005)
Stitched to Stehfest algorithm to avoid numerical problems
with Convolution algorithm. Problems were caused by
high source decay rate. Everything ok now, execution continuing...
Ren options
11:58:28
Mewbourne Oil Company
Red Hills West 21 Fed Com #2H SWD Line
Chemical simulated is Chloride
Option Chosen
                                  Saturated and unsaturated zone models
                                  DETERMIN
```

Run was Infiltration Specified By User: 7.620E-03 m/yr Run was transient Well Times: Find Maximium Concentration Reject runs if Y coordinate outside plume Reject runs if Z coordinate outside plume Gaussian source used in saturated zone model UNSATURATED ZONE FLOW MODEL PARAMETERS

(input parameter description and value) - Total number of nodal points 240 NP - Number of different porous materials 1 NMAT KPROP - Van Genuchten or Brooks and Corey 1 1 IMSHGN - Spatial discretization option NVFLAYR - Number of layers in flow model

OPTIONS CHOSEN

Van Genuchten functional coefficients User defined coordinate system

Layer information

LAYER NO. LAYER THICKNESS MATERIAL PROPERTY 35.66 1

Received by OCD: 9/2/2022 7:35:31 PM

VADOSE ZONE MATERIAL VARIABLES

DATA FOR MATERIAL 1

VARIABLE NAME	UNITS	DISTRIBUTION	PARA	METERS	LI	MITS	D.
			MEAN	STD DEV	MIN	MAX	9/2
Saturated hydraulic conductivity	cm/hr	CONSTANT	3.60	-999 .	-999 .	-999 .	202
Unsaturated zone porosity		CONSTANT	0.250	-999.	-999.	-999.	2
Air entry pressure head	m	CONSTANT	0.700	-999.	-999.	-999.	7:3
Depth of the unsaturated zone	m	CONSTANT	35.7	0.000	0.000	0.000	5:3

DATA FOR MATERIAL 1

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAM	 ETERS	 T.T	MITS
	011110	21011(1201101)	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.

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	1
N	-	Stehfest terms or number of increments	18
NTEL	-	Points in Lagrangian interpolation	3
NGPTS	-	Number of Gauss points	104
NIT	-	Convolution integral segments	2
IBOUND	-	Type of boundary condition	3
ITSGEN	-	Time values generated or input	1
TMAX	-	Max simulation time	0.0
WTFUN	-	Weighting factor	1.2

OPTIONS CHOSEN

Stehfest numerical inversion algorithm Exponentially decaying continuous source Computer generated times for computing concentrations

DATA FOR LAYER

VADOSE TRANSPORT VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARA	METERS	LI	MITS
			MEAN	STD DEV	MIN	MAX
nickness of layer	m	CONSTANT	35.7	-999 .	-999 .	-999 .
ongitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.
ercent organic matter		CONSTANT	0.000	-999.	-999.	-999.
ulk density of soil for layer	g/cc	CONSTANT	1.99	-999.	-999.	-999.
siological decay coefficient	1/yr	CONSTANT	0.000	-999.	-999.	-999.

CHEMICAL SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARA	METERS	LI	MITS
			MEAN	STD DEV	MIN	MAX
Solid phase decay coefficient	1/yr	DERIVED	-999 .	-999 .	-999 .	-999.
Dissolved phase decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.
Overall chemical decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.
Acid catalyzed hydrolysis rate	l/M-yr	CONSTANT	0.000	-999.	-999.	-999.
Neutral hydrolysis rate constant	1/yr	CONSTANT	0.000	-999.	-999.	-999.
Base catalyzed hydrolysis rate	1/M-yr	CONSTANT	0.000	-999.	-999.	-999.
Reference temperature	C	CONSTANT	25.0	-999.	-999.	-999.
Normalized distribution coefficient	ml/g	CONSTANT	0.000	-999.	-999.	-999.
Distribution coefficient		DERIVED	-999.	-999.	-999.	-999.
Biodegradation coefficient (sat. zone)	1/yr	CONSTANT	0.000	-999.	-999.	-999.
Air diffusion coefficient	cm2/s	CONSTANT	-999.	-999.	-999.	-999.
Reference temperature for air diffusion	С	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	PARAMI	ETERS	LI	MITS	
			MEAN	STD DEV	MIN	MAX	
Infiltration rate	m/yr	CONSTANT	0.762E-02	-999 .	-999 .	-999 .	
Area of waste disposal unit	m^2	CONSTANT	0.397E+04	-999.	-999.	-999.	
Duration of pulse	yr	DERIVED	0.100E-08	-999.	-999.	-999.	
Spread of contaminant source	m	DERIVED	-999.	-999.	-999.	-999.	
Recharge rate	m/yr	CONSTANT		-999.	-999.	-999.	
Source decay constant	1/yr	CONSTANT	0.250E-01	0.000	0.000	0.000	
Initial concentration at landfill	mq/l	CONSTANT	0.672E+04	-999.	-999.	-999.	

Page 63 of 318

Length scale of facility -999. -999. -999. -999. m DERIVED Width scale of facility -999. -999. -999. -999. DERIVED m Near field dilution 1.00 0.000 0.000 1.00 DERIVED

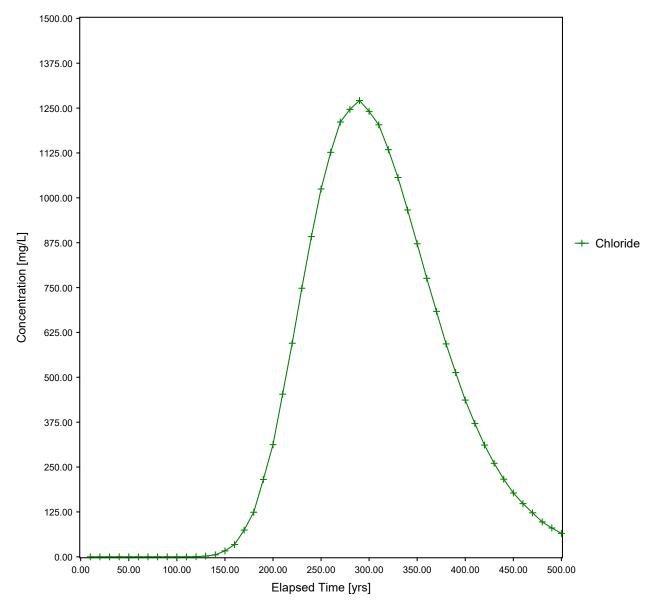
AQUIFER SPECIFIC VARIABLES

Width scale of facility Near field dilution	m	DERIVED DERIVED	-999. 1.00	-999. 0.000	-999. 0.000	-999. 1.00	Rec
	AQUIFE	R SPECIFIC VARIABLES	S				Received by
							1 by 0
VARIABLE NAME	UNITS	DISTRIBUTION	PARA	METERS	LI	 MITS	·Ĉ
			MEAN	STD DEV	MIN	MAX	9/2/
Particle diameter		CONSTANT	-999 .	-999 .	-999 .	-999 .	202
Aquifer porosity		CONSTANT	0.300	-999.	-999.	-999.	10
Bulk density	g/cc	CONSTANT	1.86	-999.	-999.	-999.	:3
Aquifer thickness	m	CONSTANT	6.10	-999.	-999.	-999.	7:35:3
Source thickness (mixing zone depth)	m	DERIVED	-999.	-999.	-999.	-999.	31
Conductivity (hydraulic)	m/yr	CONSTANT	315.	-999.	-999.	-999.	P
Gradient (hydraulic)		CONSTANT	0.300E-0	12 -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.	
рН		CONSTANT	7.00	-999.	-999.	-999.	
Organic carbon content (fraction)		CONSTANT	0.000	-999.	-999.	-999.	
Well distance from site	m	CONSTANT	1.00	-999.	-999.	-999.	
Angle off center	degree	CONSTANT	0.000	-999.	-999.	-999.	
Well vertical distance	m	CONSTANT	0.000	-999.	-999.	-999.	

MAXIMUM WELL CONCENTRATION IS 83.99 AT 1000 YEARS

Received by OCD: 9/2/2022 7:35:31 PM

Chloride Concentration At The Receptor Well (South Excavation - No Liner) Mewbourne Oil Company Red Hills West 21 Fed Com #2H SWD Line



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U.S.
    ENVIRONMENTAL PROTECTION AGENCY
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DATE OF CALCULATIONS: 1-SEP-2022 TIME: 14:18:31

EXPOSURE ASSESSMENT

MULTIMEDIA MODEL

MULTIMED (Version 1.50, 2005)

Released to Imaging: Ren options

Mewbourne Oil Company

MULTIMED V1.01

R&d Hills West 21 Fed Com #2H SWD Line

Chemical simulated is Chloride

Option Chosen Saturated and unsaturated zone models

Run was DETERMIN

Infiltration Specified By User: 3.048E-02 m/yr

Run was transient

Well Times: Find Maximium Concentration Reject runs if Y coordinate outside plume Reject runs if Z coordinate outside plume Gaussian source used in saturated zone model

UNSATURATED ZONE FLOW MODEL PARAMETERS

(input parameter description and value) NP - Total number of nodal points 240 NMAT - Number of different porous materials 1 KPROP - Van Genuchten or Brooks and Corey 1

IMSHGN - Spatial discretization option 1

NVFLAYR - Number of layers in flow model

OPTIONS CHOSEN

Van Genuchten functional coefficients User defined coordinate system

Layer information

LAYER NO. LAYER THICKNESS MATERIAL PROPERTY 35.66

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARA	METERS	LI	MITS
			MEAN	STD DEV	MIN	MAX
Jaturated hydraulic conductivity	cm/hr	CONSTANT	3.60	-999 .	-999 .	-999 .
Insaturated zone porosity		CONSTANT	0.250	-999.	-999.	-999.
air entry pressure head	m	CONSTANT	0.700	-999.	-999.	-999.
epth of the unsaturated zone	m	CONSTANT	35.7	0.000	0.000	0.000

DATA FOR MATERIAL 1

VADOSE ZONE FUNCTION VARIABLES

 VARIABLE NAME
 UNITS
 DISTRIBUTION
 PARAMETERS MEAN
 LIMITS 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.

UNSATURATED ZONE TRANSPORT MODEL PARAMETERS

NLAY	-	Number of different layers used	1
NTSTPS	_	Number of time values concentration calc	40
DUMMY	_	Not presently used	1
ISOL	_	Type of scheme used in unsaturated zone	2
N	_	Stehfest terms or number of increments	18
NTEL	-	Points in Lagrangian interpolation	3
NGPTS	-	Number of Gauss points	104
NIT	_	Convolution integral segments	2
IBOUND	-	Type of boundary condition	3
ITSGEN	_	Time values generated or input	1
TMAX	_	Max simulation time	0.0
WTFUN	_	Weighting factor	1.2

OPTIONS CHOSEN

Convolution integral approach Exponentially decaying continuous source Computer generated times for computing concentrations

Computer generated times for computing concentrations

DATA FOR LAYER 1

VARIABLE NAME	UNITS	DISTRIBUTION	PARA	AMETERS	LI	MITS
			MEAN	STD DEV	MIN	MAX
Thickness of layer	m	CONSTANT	35.7	-999 .	-999 .	-999 .
Longitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.
Percent organic matter		CONSTANT	0.000	-999.	-999.	-999.
Bulk density of soil for layer	g/cc	CONSTANT	1.99	-999.	-999.	-999.
Biological decay coefficient	1/yr	CONSTANT	0.000	-999.	-999.	-999.

CHEMICAL SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARA	METERS	LIMITS		PM
			MEAN	STD DEV	MIN	MAX	×
Solid phase decay coefficient	1/yr	DERIVED	-999 .	-999 .	-999 .	-999 .	
Dissolved phase decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.	
Overall chemical decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.	
Acid catalyzed hydrolysis rate	1/M-yr	CONSTANT	0.000	-999.	-999.	-999.	
Neutral hydrolysis rate constant	1/yr	CONSTANT	0.000	-999.	-999.	-999.	
Base catalyzed hydrolysis rate	1/M-yr	CONSTANT	0.000	-999.	-999.	-999.	
Reference temperature	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	С	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 a	tm-m^3/M	CONSTANT	-999.	-999.	-999.	-999.	
Overall 1st order decay sat. zone	1/yr	DERIVED	0.000	0.000	0.000	1.00	
Not currently used		CONSTANT	0.000	0.000	0.000	0.000	
Not currently used		CONSTANT	0.000	0.000	0.000	0.000	

SOURCE SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LI		
			MEAN	STD DEV	MIN	MAX	
Infiltration rate	m/yr	CONSTANT	0.305E-01	-999.	-999 .	-999 .	
Area of waste disposal unit	m^2	CONSTANT	0.397E+04	-999.	-999.	-999.	
Duration of pulse	yr	DERIVED	0.100E-08	-999.	-999.	-999.	
Spread of contaminant source	m	DERIVED	-999.	-999.	-999.	-999.	
Recharge rate	m/yr	CONSTANT	0.000	-999.	-999.	-999.	Pa
Source decay constant	1/yr	CONSTANT	0.250E-01	0.000	0.000	0.000	96
Initial concentration at landfill	mg/l	CONSTANT	0.672E+04	-999.	-999.	-999.	6
Length scale of facility	m	DERIVED	-999.	-999.	-999.	-999.	0,
Width scale of facility	m	DERIVED	-999.	-999.	-999.	-999.	73
Near field dilution		DERIVED	1.00	0.000	0.000	1.00	18

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VARIABLE NAME	UNITS	DISTRIBUTION	PARAM:	 ETERS	LI	MITS	gu by
			MEAN	STD DEV	MIN	MAX	
Particle diameter	cm	CONSTANT	-999 .	-999 .	-999 .	-999 .	<u>oc</u> p:
Aquifer porosity		CONSTANT	0.300	-999.	-999.	-999.	8
Bulk density	g/cc	CONSTANT	1.86	-999.	-999.	-999.	9/2/202
Aquifer thickness	m	CONSTANT	6.10	-999.	-999.	-999.	2
Source thickness (mixing zone depth)	m	DERIVED	-999.	-999.	-999.	-999.	N
Conductivity (hydraulic)	m/yr	CONSTANT	315.	-999.	-999.	-999.	7::35::31
Gradient (hydraulic)		CONSTANT	0.300E-02	-999.	-999.	-999.	3
Groundwater seepage velocity	m/yr	DERIVED	-999.	-999.	-999.	-999.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Retardation coefficient		DERIVED	-999.	-999.	-999.	-999.	PA
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.	
рН		CONSTANT	7.00	-999.	-999.	-999.	
Organic carbon content (fraction)		CONSTANT	0.000	-999.	-999.	-999.	
Well distance from site	m	CONSTANT	1.00	-999.	-999.	-999.	
Angle off center	degree	CONSTANT	0.000	-999.	-999.	-999.	
Well vertical distance	m	CONSTANT	0.000	-999.	-999.	-999.	

MAXIMUM WELL CONCENTRATION IS 1302. AT 290 YEARS

Appendix F Multimedia Exposure Assessment Model (MULTIMED)

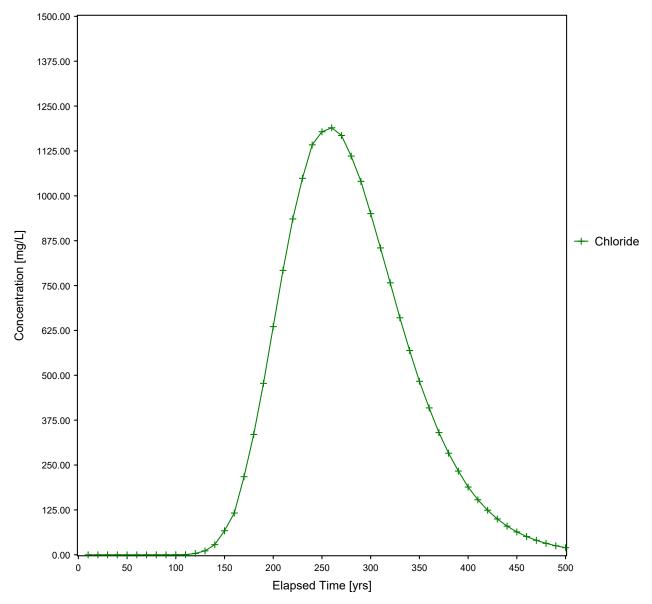
Deferral Area

Received by OCD: 9/2/2022 7:35:31 PM

Chloride Concentration At The Receptor Well (Deferral Area)

Mewbourne Oil Company

Red Hills West 21 Fed Com #2H SWD Line



DATE OF CALCULATIONS: 1-SEP-2022 TIME: 15:49:21

U.S. ENVIRONMENTAL PROTECTION AGENCY

EXPOSURE ASSESSMENT

MULTIMEDIA MODEL

MULTIMED (Version 1.50, 2005)

Released to Imaging: Ren options

Mewbourne Oil Company

MULTIMED V1.01

R&d Hills West 21 Fed Com #2H SWD Line

Chemical simulated is Chloride

Option Chosen Saturated and unsaturated zone models

Run was DETERMIN

Infiltration Specified By User: 3.048E-02 m/yr

Run was transient

Well Times: Find Maximium Concentration Reject runs if Y coordinate outside plume Reject runs if Z coordinate outside plume Gaussian source used in saturated zone model

UNSATURATED ZONE FLOW MODEL PARAMETERS (input parameter description and value) NP - Total number of nodal points

240 NMAT - Number of different porous materials 1 KPROP - Van Genuchten or Brooks and Corey 1 IMSHGN - Spatial discretization option 1 NVFLAYR - Number of layers in flow model

OPTIONS CHOSEN

Van Genuchten functional coefficients User defined coordinate system

Layer information

LAYER NO. LAYER THICKNESS MATERIAL PROPERTY 31.39

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS DISTRIBUTION		PARA	METERS	LIMITS		
			MEAN	STD DEV	MIN	MAX	
aturated hydraulic conductivity	cm/hr	CONSTANT	3.60	-999.	-999 .	-999 .	
nsaturated zone porosity		CONSTANT	0.250	-999.	-999.	-999.	
ir entry pressure head	m	CONSTANT	0.700	-999.	-999.	-999.	
epth of the unsaturated zone	m	CONSTANT	31.4	0.000	0.000	0.000	

DATA FOR MATERIAL 1

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	DISTRIBUTION PARAME		ETERS 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.	

UNSATURATED ZONE TRANSPORT MODEL PARAMETERS

NLAY	_	Number of different layers used	1
NTSTPS	_	Number of time values concentration calc	40
DUMMY	_	Not presently used	1
ISOL	_	Type of scheme used in unsaturated zone	2
N	_	Stehfest terms or number of increments	18
NTEL	-	Points in Lagrangian interpolation	3
NGPTS	_	Number of Gauss points	104
NIT	_	Convolution integral segments	2
IBOUND	-	Type of boundary condition	3
ITSGEN	_	Time values generated or input	1
TMAX	_	Max simulation time	0.0
WTFUN	-	Weighting factor	1.2

OPTIONS CHOSEN

Convolution integral approach Exponentially decaying continuous source Computer generated times for computing concentrations

DATA FOR LAYER 1

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS		
			MEAN	STD DEV	MIN	MAX	
Thickness of layer	m	CONSTANT	31.4	-999 .	-999 .	-999 .	
Longitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.	
Percent organic matter		CONSTANT	0.000	-999.	-999.	-999.	
Bulk density of soil for layer	g/cc	CONSTANT	1.99	-999.	-999.	-999.	
Biological decay coefficient	1/yr	CONSTANT	0.000	-999.	-999.	-999.	

CHEMICAL SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION		 METERS	тт	 MITS	-
VARIABLE NAME	UNIIS	DISTRIBUTION	MEAN	STD DEV	MIN	MAX	PM
Solid phase decay coefficient	1/yr	DERIVED	-999 .	-999 .	-999 .	-999 .	
Dissolved phase decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.	
Overall chemical decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.	
Acid catalyzed hydrolysis rate	l/M-yr	CONSTANT	0.000	-999.	-999.	-999.	
Neutral hydrolysis rate constant	1/yr	CONSTANT	0.000	-999.	-999.	-999.	
Base catalyzed hydrolysis rate	1/M-yr	CONSTANT	0.000	-999.	-999.	-999.	
Reference temperature	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	С	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	tm-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	PARAMETERS		MITS	
			MEAN	STD DEV	MIN	MAX	
Infiltration rate	m/yr	CONSTANT	0.305E-01	-999 .	-999 .	-999.	
Area of waste disposal unit	m^2	DERIVED	0.343E+04	-999.	-999.	-999.	
Duration of pulse	yr	DERIVED	0.100E-08	-999.	-999.	-999.	
Spread of contaminant source	m	DERIVED	-999.	-999.	-999.	-999.	
Recharge rate	m/yr	CONSTANT	0.000	-999.	-999.	-999.	Page
Source decay constant	1/yr	CONSTANT	0.250E-01	0.000	0.000	0.000	80
Initial concentration at landfill	mg/l	CONSTANT	0.606E+04	-999.	-999.	-999.	73
Length scale of facility	m	CONSTANT	34.8	-999.	-999.	-999.	of
Width scale of facility	m	CONSTANT	1.83	-999.	-999.	-999.	$\widetilde{\omega}$
Near field dilution		DERIVED	1.00	0.000	0.000	1.00	318

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VARIABLE NAME	UNITS	DISTRIBUTION	PARAM	 ETERS	LIMITS		ed by
			MEAN	STD DEV	MIN	MAX	
Particle diameter	cm	CONSTANT	-999 .	-999 .	-999 .	-999 .	CD:
Aquifer porosity		CONSTANT	0.300	-999.	-999.	-999.	9
Bulk density	g/cc	CONSTANT	1.86	-999.	-999.	-999.	9/2/202
Aquifer thickness	m	CONSTANT	6.10	-999.	-999.	-999.	92
Source thickness (mixing zone depth)	m	DERIVED	-999.	-999.	-999.	-999.	10
Conductivity (hydraulic)	m/yr	CONSTANT	315.	-999.	-999.	-999.	7:35:31
Gradient (hydraulic)		CONSTANT	0.300E-02	-999.	-999.	-999.	5
Groundwater seepage velocity	m/yr	DERIVED	-999.	-999.	-999.	-999.	
Retardation coefficient		DERIVED	-999.	-999.	-999.	-999.	PN
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.	
рН		CONSTANT	7.00	-999.	-999.	-999.	
Organic carbon content (fraction)		CONSTANT	0.000	-999.	-999.	-999.	
Well distance from site	m	CONSTANT	1.00	-999.	-999.	-999.	
Angle off center	degree	CONSTANT	0.000	-999.	-999.	-999.	
Well vertical distance	m	CONSTANT	0.000	-999.	-999.	-999.	

MAXIMUM WELL CONCENTRATION IS 1198. AT 256 YEARS

```
MULTIMED V1.01
                 DATE OF CALCULATIONS: 1-SEP-2022 TIME: 16: 0:34
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U.S. ENVIRONMENTAL PROTECTION AGENCY

EXPOSURE ASSESSMENT

MULTIMEDIA MODEL

MULTIMED (Version 1.50, 2005)

Released to Imaging: Ren options

Mewbourne Oil Company

R&d Hills West 21 Fed Com #2H SWD Line

Chemical simulated is Chloride

Option Chosen Saturated and unsaturated zone models DETERMIN

Run was Infiltration Specified By User: 3.048E-02 m/yr

Run was transient

Well Times: Entered Explicitly

Reject runs if Y coordinate outside plume

Reject runs if Z coordinate outside plume

Gaussian source used in saturated zone model

UNSATURATED ZONE FLOW MODEL PARAMETERS (input parameter description and value)

NP - Total number of nodal points 240 NMAT - Number of different porous materials 1

KPROP - Van Genuchten or Brooks and Corey

IMSHGN - Spatial discretization option 1 NVFLAYR - Number of layers in flow model

OPTIONS CHOSEN

Van Genuchten functional coefficients

User defined coordinate system

Layer information

LAYER NO. LAYER THICKNESS MATERIAL PROPERTY 31.39

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
aturated hydraulic conductivity	cm/hr	CONSTANT	3.60	-999 .	-999 .	-999 .
nsaturated zone porosity		CONSTANT	0.250	-999.	-999.	-999.
ir entry pressure head	m	CONSTANT	0.700	-999.	-999.	-999.
epth of the unsaturated zone	m	CONSTANT	31.4	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.	

UNSATURATED ZONE TRANSPORT MODEL PARAMETERS

NLAY	_	Number of different layers used	1
NTSTPS	_	Number of time values concentration calc	40
DUMMY	_	Not presently used	1
ISOL	_	Type of scheme used in unsaturated zone	2
N	_	Stehfest terms or number of increments	18
NTEL	_	Points in Lagrangian interpolation	3
NGPTS	_	Number of Gauss points	104
NIT	_	Convolution integral segments	2
IBOUND	_	Type of boundary condition	3
ITSGEN	_	Time values generated or input	1
TMAX	_	Max simulation time	0.0
WTFUN	_	Weighting factor	1.2

OPTIONS CHOSEN

Convolution integral approach Exponentially decaying continuous source Computer generated times for computing concentrations

DATA FOR LAYER

VARIABLE NAME	LE NAME UNITS DISTRIE		TION PARAMETI		METERS LIMITS		
			MEAN	STD DEV	MIN	MAX	
Thickness of layer	m	CONSTANT	31.4	-999 .	-999 .	-999 .	
Longitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.	
Percent organic matter		CONSTANT	0.000	-999.	-999.	-999.	
Bulk density of soil for layer	g/cc	CONSTANT	1.99	-999.	-999.	-999.	
Biological decay coefficient	1/yr	CONSTANT	0.000	-999.	-999.	-999.	

CHEMICAL SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARA	 METERS	LIMITS		I PM
	011110	2121112011011	MEAN	STD DEV	MIN	MAX	X
Solid phase decay coefficient	1/yr	DERIVED	-999 .	-999 .	-999 .	-999 .	
Dissolved phase decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.	
Overall chemical decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.	
Acid catalyzed hydrolysis rate	1/M-yr	CONSTANT	0.000	-999.	-999.	-999.	
Neutral hydrolysis rate constant	1/yr	CONSTANT	0.000	-999.	-999.	-999.	
Base catalyzed hydrolysis rate	1/M-yr	CONSTANT	0.000	-999.	-999.	-999.	
Reference temperature	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	С	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	tm-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	PARAMI MEAN	ETERS STD DEV	LI MIN	MITS MAX	
Infiltration rate Area of waste disposal unit Duration of pulse Spread of contaminant source Recharge rate Source decay constant Initial concentration at landfill Length scale of facility Width scale of facility Near field dilution	m/yr m^2 yr m m/yr 1/yr mg/1 m	CONSTANT DERIVED DERIVED CONSTANT CONSTANT CONSTANT CONSTANT CONSTANT CONSTANT CONSTANT	0.305E-01 0.343E+04 0.100E-08 -999. 0.000 0.250E-01 0.606E+04 34.8 1.83 1.00	-999. -999. -999. -999.	-999. -999. -999. -999. -999. 0.000 -999. -999. -999.	-999. -999. -999. -999. -999. 0.000 -999. -999. -999.	Page 77 of 318

	AQUIFE!	R SPECIFIC VARIABLES	3				Re
VADTADIE NAME						,	ceived
VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS MEAN STD DEV		LIMITS MIN MAX		by Oc
Particle diameter		CONSTANT	-999 .	-999 .	-999 .	-999.	<u>:</u>
Aquifer porosity		CONSTANT	0.300	-999.	-999.	-999.	9/
Bulk density	g/cc	CONSTANT	1.86	-999.	-999.	-999.	2/2
Aquifer thickness	m	CONSTANT	6.10	-999.	-999.	-999.	202
Source thickness (mixing zone depth)	m	DERIVED	-999.	-999.	-999.	-999.	2
Conductivity (hydraulic)	m/yr	CONSTANT	315.	-999.	-999.	-999.	7:3
Gradient (hydraulic)		CONSTANT	0.300E-02	-999.	-999.	-999.	5:
Groundwater seepage velocity	m/yr	DERIVED	-999.	-999.	-999.	-999.	31
Retardation coefficient		DERIVED	-999.	-999.	-999.	-999.	P
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.	
рН		CONSTANT	7.00	-999.	-999.	-999.	
Organic carbon content (fraction)		CONSTANT	0.000	-999.	-999.	-999.	
Well distance from site	m	CONSTANT	1.00	-999.	-999.	-999.	
Angle off center	degree	CONSTANT	0.000	-999.	-999.	-999.	
Well vertical distance	m	CONSTANT	0.000	-999.	-999.	-999.	

TIME	CC	NCENTRATION
0.100E+0)2	0.00000E+00
0.200E+0)2	0.00000E+00
0.300E+0)2	0.0000E+00
0.400E+0)2	0.00000E+00
0.500E+0)2	0.00000E+00
0.600E+0)2	0.00000E+00
0.700E+0)2	0.00000E+00
0.800E+0)2	0.00000E+00
0.900E+0)2	0.00000E+00
0.100E+0)3	0.17232E+00
0.110E+0)3	0.54975E+00
0.120E+0)3	0.37397E+01
0.130E+0)3	0.10883E+02
0.140E+0)3	0.28383E+02
0.150E+0)3	0.67030E+02
0.160E+0)3	0.11629E+03
0.170E+0)3	0.21742E+03
0.180E+0)3	0.33515E+03
0.190E+0)3	0.47756E+03
0.200E+0)3	0.63547E+03
0.210E+0)3	0.79215E+03
0.220E+0)3	0.93545E+03
0.230E+0)3	0.10488E+04
0.240E+0)3	0.11419E+04
0.250E+0)3	0.11785E+04

Page 78 of 318

Received by OCD: 9/2/2022 7:35:31 PM

0.260E+03 0.11896E+04 0.270E+03 0.11679E+04 0.280E+03 0.11107E+04 0.290E+03 0.10403E+04 0.300E+03 0.95035E+03 0.310E+03 0.85486E+03 0.320E+03 0.75779E+03 0.330E+03 0.66028E+03 0.340E+03 0.56884E+03 0.350E+03 0.48347E+03 0.360E+03 0.40921E+03 0.370E+03 0.34049E+03 0.380E+03 0.28292E+03 0.390E+03 0.23323E+03 0.400E+03 0.18884E+03 0.410E+03 0.15342E+03 0.420E+03 0.12404E+03 0.430E+03 0.99794E+02 0.440E+03 0.79821E+02 0.450E+03 0.63814E+02 0.460E+03 0.50802E+02 0.470E+03 0.40331E+02 0.480E+03 0.31860E+02 0.490E+03 0.25200E+02 0.500E+03 0.19869E+02

Appendix G Laboratory Analytical Reports



March 08, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 2H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/03/22 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is 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)

Celey D. Keine

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. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 03/03/2022 Sampling Date: 03/03/2022

Reported: 03/08/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: Cool & Intact
Project Number: 15507 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

Sample ID: NH 1 @ SURFACE (H220846-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514	
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663	
Total BTEX	<0.300	0.300	03/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/07/2022	ND	416	104	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	03/07/2022	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	200	99.8	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					
Surrogate: 1-Chlorooctane	81.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	89.2	% 59.5-14	2						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 03/03/2022 Sampling Date: 03/03/2022

Reported: 03/08/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: Cool & Intact Project Number: 15507 Sample Received By: Tamara Oldaker

Project Location: **MEWBOURNE**

Sample ID: NH 1 @ 1' (H220846-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514	
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478	
Total Xylenes*	< 0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663	
Total BTEX	<0.300	0.300	03/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/07/2022	ND	416	104	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	03/07/2022	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	200	99.8	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					
Surrogate: 1-Chlorooctane	81.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	88.9	% 59.5-14	2						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 03/03/2022 Sampling Date: 03/03/2022

Reported: 03/08/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: Cool & Intact
Project Number: 15507 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

Sample ID: EH 1 @ SURFACE (H220846-03)

BTEX 8021B	mg	/kg	Analyze	ed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514	
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663	
Total BTEX	<0.300	0.300	03/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/07/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	200	99.8	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					
Surrogate: 1-Chlorooctane	80.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	87.1	% 59.5-14	22						

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 03/03/2022 Sampling Date: 03/03/2022

Reported: 03/08/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: Cool & Intact
Project Number: 15507 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

Sample ID: EH 1 @ 1' (H220846-04)

BTEX 8021B	mg	/kg	Analyze	ed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514	
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663	
Total BTEX	<0.300	0.300	03/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/07/2022	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	200	99.8	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					
Surrogate: 1-Chlorooctane	86.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	94.3	% 59.5-14	22						

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Analytical Results For:

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

Fax To:

Received: 03/03/2022 Sampling Date: 03/03/2022

Reported: 03/08/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: Cool & Intact
Project Number: 15507 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

Sample ID: EH 2 @ SURFACE (H220846-05)

BTEX 8021B	mg	/kg	Analyze	ed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514	
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663	
Total BTEX	<0.300	0.300	03/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/07/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	200	99.8	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					
Surrogate: 1-Chlorooctane	90.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	98.8	% 59.5-14	22						

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Analytical Results For:

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

Fax To:

Received: 03/03/2022 Sampling Date: 03/03/2022

Reported: 03/08/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: Cool & Intact
Project Number: 15507 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

Sample ID: EH 2 @ 1' (H220846-06)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514	
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485	
Ethylbenzene*	< 0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663	
Total BTEX	<0.300	0.300	03/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/07/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	200	99.8	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					
Surrogate: 1-Chlorooctane	81.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	87.6	% 59.5-14	22						

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Celey D. Keine



Analytical Results For:

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

Received: 03/03/2022 Reported:

Sampling Date:

03/03/2022

Project Name:

03/08/2022

Sampling Type:

Soil Cool & Intact

RED HILLS WEST 21 FED COM 2H BATTE

Sampling Condition: Sample Received By:

Tamara Oldaker

Project Number:

15507

Project Location: **MEWBOURNE**

Sample ID: EH 3 @ SURFACE (H220846-07)

Analyte Result Reporting Limit Analyzed Method Blank BS Benzene* <0.050 0.050 03/05/2022 ND 2.19 Toluene* <0.050 0.050 03/05/2022 ND 2.15	% Recovery 109 107	True Value QC 2.00 2.00	RPD 0.514	Qualifier
• •	107		0.514	
Toluene* <0.050 0.050 03/05/2022 ND 2.15		2.00		
			0.0485	
Ethylbenzene* <0.050 0.050 03/05/2022 ND 2.12	106	2.00	0.478	
Total Xylenes* <0.150 0.150 03/05/2022 ND 6.55	109	6.00	0.663	
Total BTEX <0.300 0.300 03/05/2022 ND				
Surrogate: 4-Bromofluorobenzene (PID 104 % 69.9-140				
Chloride, SM4500Cl-B mg/kg Analyzed By: AC				
Analyte Result Reporting Limit Analyzed Method Blank BS	% Recovery	True Value QC	RPD	Qualifier
Chloride <16.0 16.0 03/07/2022 ND 416	104	400	0.00	
TPH 8015M mg/kg Analyzed By: MS				
Analyte Result Reporting Limit Analyzed Method Blank BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10* <10.0 10.0 03/07/2022 ND 208	104	200	1.13	
DRO >C10-C28* <10.0 10.0 03/07/2022 ND 200	99.8	200	3.01	
EXT DRO >C28-C36 <10.0 10.0 03/07/2022 ND				
Surrogate: 1-Chlorooctane 88.1 % 66.9-136				
Surrogate: 1-Chlorooctadecane 96.3 % 59.5-142				

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03/03/2022

Analytical Results For:

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

Received: 03/03/2022 Sampling Date:

Reported: 03/08/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: Cool & Intact
Project Number: 15507 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

Sample ID: EH 3 @ 1' (H220846-08)

BTEX 8021B	mg	/kg	Analyze	ed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514	
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663	
Total BTEX	<0.300	0.300	03/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/07/2022	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	200	99.8	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					
Surrogate: 1-Chlorooctane	82.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	88.5	% 59.5-14	22						

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Analytical Results For:

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

Fax To:

Received: 03/03/2022 Sampling Date: 03/03/2022

Reported: 03/08/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: Cool & Intact
Project Number: 15507 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

Sample ID: EH 4 @ SURFACE (H220846-09)

BTEX 8021B	mg	/kg	Analyze	ed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514	
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663	
Total BTEX	<0.300	0.300	03/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/07/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2022	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	200	99.8	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					
Surrogate: 1-Chlorooctane	82.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	91.4	% 59.5-14	22						

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Analytical Results For:

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

Fax To:

Received: 03/03/2022 Sampling Date: 03/03/2022

Reported: 03/08/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: Cool & Intact Project Number: Sample Received By: 15507 Tamara Oldaker

Project Location: **MEWBOURNE**

Sample ID: EH 4 @ 1' (H220846-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2022	ND	2.19	109	2.00	0.514	
Toluene*	<0.050	0.050	03/05/2022	ND	2.15	107	2.00	0.0485	
Ethylbenzene*	<0.050	0.050	03/05/2022	ND	2.12	106	2.00	0.478	
Total Xylenes*	<0.150	0.150	03/05/2022	ND	6.55	109	6.00	0.663	
Total BTEX	<0.300	0.300	03/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/07/2022	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	03/07/2022	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	03/07/2022	ND	200	99.8	200	3.01	
EXT DRO >C28-C36	<10.0	10.0	03/07/2022	ND					
Surrogate: 1-Chlorooctane	77.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	84.9	% 59.5-14	2						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

No Rush ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of)

(575) 393-2326 FAX (575) 393-2476		. ,
Company Name: Etech Environmental & Safety Solutions, Inc.	BILL TO	ANALYSIS REQUEST
Project Manager: Lance Crenshaw	P.O. #:	
Address: P.O. Box 301	Company: Mewbovine	
City: Lovington- Hobbs State: NM Zip: 88260- 8824	Attn: Robbie Runnels	
Phone #: (575) 396-2378 Fax #: (575) 396-1429	Address:	
Project #: 5 5 0 7 Project Owner: Robbio Russels	City:	
Project *: 15507 Project Owner: Robbie Runnels Project Name: Red Hills West 21 Fed Com 2H Battery Project Location: Mewborne Oil Company	State: Zip: Phone #: Fax #: DDESERV SAMPING	BTEX (8021B)
Project Location: Mewbourne Oil Company	Phone #:	(8)
Sampler Name: Eric Mojica	Fax #: 5 #	<u> </u>
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	
(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	ACIDIGE STUDIOS ACIDIGA STUDIOS ACIDIGAS STUDIOS ACIDIGAS STUDIOS ACIDIGAS ACIDICAS	
NHIOS.,f. GII I	1 3-3-22 1	V
ZNHIEI' GII I	1 > 1 1	1
3 EH lesuf. GII	1 1 1	1
4 E H e G V		1
5 EH2es,f. GIII	1 \ \ \ \ \ \	1
6 EHZel' GIIV		
7 EH3eSuf. G11 1		
8 E H 3 0 1 G 1 V	- / / /	
9 EH4eS.A. G1 1	1 1 1	
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analyses All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writin service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruption.	and received by Cardinal within 30 days after completion of the applicable	
affiliates or successors arising out of or related to the performance of senerals betreamder by Cardinal reparaties of whether such of Relinquished By: Date: 3.3-22 Received By: Relinquished By: Date: Received By:		
Delivered By: (Circle One)	Please email result	is to pm@etechenv.com.
Delivered By: (Circle One) 4 6 C-0,5c Sample Cor Cool Intar Sampler - UPS - Bus - Other: 3.6c #113 1 No 1	es (Initials)	

FORM-006 Revision 1.0 † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

Released to Imaging: 9/12/2022 11:58:28 AM

Page 13 of 13



March 10, 2022

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

RE: RED HILLS WEST 21 FED COM 2H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/04/22 15:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

A .. . l. d D. .. 311

Received: 03/04/2022

03/10/2022

Sampling Date:

Reported:

Sampling Type:

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Project Number: 15507 Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

03/03/2022

Soil

Project Location: MEWBOURNE

Sample ID: SP 1 @ SURFACE (H220874-01)

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	03/08/2022	ND	2.04	102	2.00	4.39	
Toluene*	<0.050	0.050	03/08/2022	ND	2.05	103	2.00	7.97	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	2.02	101	2.00	7.48	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	6.30	105	6.00	7.51	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	03/08/2022	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	03/09/2022	ND	195	97.6	200	26.1	
DRO >C10-C28*	57.6	10.0	03/09/2022	ND	197	98.4	200	13.0	
EXT DRO >C28-C36	12.3	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	86.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	98.4	% 59.5-14	2						

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Celey D. Keine



Analytical Results For:

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

Fax To:

Received: 03/04/2022 Sampling Date: 03/03/2022

Reported: 03/10/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTI Sampling Condition: Cool & Intact
Project Number: 15507 Sample Received By: Jodi Henson

Project Location: MEWBOURNE

Sample ID: SP 1 @ 8' (H220874-02)

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	03/08/2022	ND	2.04	102	2.00	4.39	
Toluene*	<0.050	0.050	03/08/2022	ND	2.05	103	2.00	7.97	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	2.02	101	2.00	7.48	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	6.30	105	6.00	7.51	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/08/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	195	97.6	200	26.1	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	197	98.4	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	87.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	96.7	% 59.5-14	22						

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 03/04/2022 Sampling Date: 03/03/2022

Reported: 03/10/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: Cool & Intact
Project Number: 15507 Sample Received By: Jodi Henson

Analyzed By: JH

Project Location: MEWBOURNE

mg/kg

Sample ID: SP 2 @ SURFACE (H220874-03)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	2.04	102	2.00	4.39	
Toluene*	<0.050	0.050	03/08/2022	ND	2.05	103	2.00	7.97	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	2.02	101	2.00	7.48	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	6.30	105	6.00	7.51	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/08/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	195	97.6	200	26.1	
DRO >C10-C28*	33.9	10.0	03/09/2022	ND	197	98.4	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	83.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	94.8	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 03/04/2022 Sampling Date: 03/03/2022

Reported: 03/10/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTI Sampling Condition: Cool & Intact
Project Number: 15507 Sample Received By: Jodi Henson

Analyzed By: JH

Project Location: MEWBOURNE

mg/kg

Sample ID: SP 2 @ 14' (H220874-04)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	2.04	102	2.00	4.39	
Toluene*	<0.050	0.050	03/08/2022	ND	2.05	103	2.00	7.97	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	2.02	101	2.00	7.48	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	6.30	105	6.00	7.51	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/08/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	195	97.6	200	26.1	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	197	98.4	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	81.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	91.4	% 59.5-14	2						

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Celey D. Keine



Analytical Results For:

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

Received: 03/04/2022 Sampling Date: 03/03/2022

Reported: 03/10/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTI Sampling Condition: Cool & Intact
Project Number: 15507 Sample Received By: Jodi Henson

Applyzod By: 14

Project Location: MEWBOURNE

Sample ID: SP 3 @ SURFACE (H220874-05)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	2.04	102	2.00	4.39	
Toluene*	<0.050	0.050	03/08/2022	ND	2.05	103	2.00	7.97	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	2.02	101	2.00	7.48	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	6.30	105	6.00	7.51	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	03/08/2022	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	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	23.1	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	82.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	81.9	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

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

Analyzed By: JH

Received: 03/04/2022

Sampling Date:

03/03/2022

Reported: Project Name: 03/10/2022

Sampling Type: Sampling Condition: Soil Cool & Intact

Project Number:

BTEX 8021B

RED HILLS WEST 21 FED COM 2H BATTI 15507

Sample Received By:

Jodi Henson

Project Location:

MEWBOURNE

mg/kg

Sample ID: SP 3 @ 6' (H220874-06)

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	2.04	102	2.00	4.39	
Toluene*	<0.050	0.050	03/08/2022	ND	2.05	103	2.00	7.97	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	2.02	101	2.00	7.48	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	6.30	105	6.00	7.51	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/08/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	88.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	84.3	% 59.5-14	2						

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Celey D. Keine



Analytical Results For:

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

Received: 03/04/2022 Sampling Date: 03/03/2022

Reported: 03/10/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTI Sampling Condition: Cool & Intact
Project Number: 15507 Sample Received By: Jodi Henson

Applyzod By: 14

Project Location: MEWBOURNE

Sample ID: SP 4 @ SURFACE (H220874-07)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	2.04	102	2.00	4.39	
Toluene*	<0.050	0.050	03/08/2022	ND	2.05	103	2.00	7.97	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	2.02	101	2.00	7.48	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	6.30	105	6.00	7.51	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	03/08/2022	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	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	178	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	81.6	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	84.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	90.5	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 03/04/2022 Sampling Date: 03/03/2022

Reported: 03/10/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: Cool & Intact
Project Number: 15507 Sample Received By: Jodi Henson

Project Location: MEWBOURNE

Sample ID: SP 4 @ 4' (H220874-08)

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	03/08/2022	ND	2.04	102	2.00	4.39	
Toluene*	<0.050	0.050	03/08/2022	ND	2.05	103	2.00	7.97	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	2.02	101	2.00	7.48	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	6.30	105	6.00	7.51	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	03/08/2022	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	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	100	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	94.6	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 03/04/2022 Sampling Date: 03/04/2022

Reported: 03/10/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTI Sampling Condition: Cool & Intact
Project Number: 15507 Sample Received By: Jodi Henson

Analyzed By: JH

Project Location: MEWBOURNE

mg/kg

Sample ID: SP 5 @ SURFACE (H220874-09)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	2.04	102	2.00	4.39	
Toluene*	<0.050	0.050	03/08/2022	ND	2.05	103	2.00	7.97	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	2.02	101	2.00	7.48	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	6.30	105	6.00	7.51	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	03/08/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	96.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	91.3	% 59.5-14	2						

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Celey D. Keine



Analytical Results For:

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

Received: 03/04/2022 Sampling Date: 03/04/2022

Reported: 03/10/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: Cool & Intact Sample Received By: Project Number: 15507 Jodi Henson

Project Location: **MEWBOURNE**

Sample ID: SP 5 @ 4' (H220874-10)

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	03/08/2022	ND	2.04	102	2.00	4.39	
Toluene*	<0.050	0.050	03/08/2022	ND	2.05	103	2.00	7.97	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	2.02	101	2.00	7.48	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	6.30	105	6.00	7.51	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/08/2022	ND	416	104	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	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	89.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	85.0	% 59.5-14	2						

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Celey D. Keene



Sample Received By:

03/04/2022

Jodi Henson

Analytical Results For:

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

Analyzed By: MS

Received: 03/04/2022 Sampling Date:

Reported: 03/10/2022 Sampling Type: Soil Sampling Condition: Cool & Intact

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Project Number: 15507

mg/kg

Project Location: **MEWBOURNE**

Sample ID: SP 6 @ SURFACE (H220874-11) BTEX 8021B

DIEX GOZID	11197	- Kg	Alldiyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6080	16.0	03/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	91.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	86.8	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 03/04/2022 Sampling Date: 03/04/2022

Reported: 03/10/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: Cool & Intact Project Number: 15507 Sample Received By: Jodi Henson

Project Location: **MEWBOURNE**

Sample ID: SP 6 @ 8' (H220874-12)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	03/08/2022	ND	416	104	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	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	88.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	85.2	% 59.5-14	2						

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Analytical Results For:

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

Fax To:

Received: 03/04/2022 Sampling Date: 03/04/2022

Reported: 03/10/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTI Sampling Condition: Cool & Intact
Project Number: 15507 Sample Received By: Jodi Henson

Analyzed By: MS

Project Location: MEWBOURNE

mg/kg

Sample ID: SP 7 @ SURFACE (H220874-13)

BTEX 8021B

	<u> </u>			,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 % 69.9-14 mg/kg		0						
Chloride, SM4500CI-B			Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	03/09/2022	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	91.0 % 66.9-13		6						
Surrogate: 1-Chlorooctadecane	86.8	% 59.5-14	22						

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 03/04/2022 Sampling Date: 03/04/2022

Reported: 03/10/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: Cool & Intact
Project Number: 15507 Sample Received By: Jodi Henson

Applyzod By: MC

Project Location: MEWBOURNE

ma/ka

Sample ID: SP 7 @ 6' (H220874-14)

RTFY 8021R

BIEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 % 69.9-14		0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/09/2022	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	91.7 % 66.9-130		6						
Surrogate: 1-Chlorooctadecane	87.1	% 59.5-14	2						

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Analytical Results For:

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

Fax To:

Received: 03/04/2022 Sampling Date: 03/04/2022

Reported: 03/10/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTI Sampling Condition: Cool & Intact
Project Number: Sample Received By: Jodi Henson

Analyzed By: MS

Project Location: MEWBOURNE

Sample ID: SP 8 @ SURFACE (H220874-15)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	03/09/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	96.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	93.1	% 59.5-14	2						

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Celey D. Keine



Analytical Results For:

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

Fax To:

Received: 03/04/2022 Sampling Date: 03/04/2022

Reported: 03/10/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: Cool & Intact Project Number: 15507 Sample Received By: Jodi Henson

Project Location: **MEWBOURNE**

Sample ID: SP 8 @ 8' (H220874-16)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/09/2022	ND	416	104	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	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	92.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	87.7	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

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

Received: 03/04/2022 Sampling Date: Reported:

03/10/2022 Sampling Type: Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition:

Project Number: 15507

Project Location: **MEWBOURNE** 03/04/2022 Soil

Sample Received By:

Cool & Intact Jodi Henson

Sample ID: EH 5 @ SURFACE (H220874-17)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/09/2022	ND	416	104	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	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	98.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	93.3	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 03/04/2022 Sampling Date: 03/04/2022

Reported: 03/10/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: Cool & Intact
Project Number: Sample Received By: Jodi Henson

Applyzod By: MC

Project Location: MEWBOURNE

ma/ka

Sample ID: EH 5 @ 1' (H220874-18)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/09/2022	ND	416	104	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	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	97.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	91.9	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

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

Received: 03/04/2022 Sampling Date Reported: 03/10/2022 Sampling Typ

Project Name: RED HILLS WEST 21 FED COM 2H BATTE

Project Number: 15507

Project Location: MEWBOURNE

Sampling Date: 03/04/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SH 1 @ SURFACE (H220874-19)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-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	03/09/2022	ND	416	104	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	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	88.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	85.1	% 59.5-14	22						

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Celey D. Keine



Analytical Results For:

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

Received: 03/04/2022 Reported: 03/10/2022

Project Name: RED HILLS WEST 21 FED COM 2H BATTE

Project Number: 15507

Project Location: **MEWBOURNE** Sampling Date: 03/04/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: SH 1 @ 1' (H220874-20)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/09/2022	ND	416	104	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	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	99.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	94.5	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

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

Received: 03/04/2022

Sampling Date:

Reported: 03/10/2022

Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE
Project Number: 15507

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

03/04/2022

Project Location: MEWBOURNE

Sample ID: WH 1 @ SURFACE (H220874-21)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	< 0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/09/2022	ND	416	104	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	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	91.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	87.1	% 59.5-14	22						

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Celey D. Kreine



Analytical Results For:

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

Fax To:

Received: 03/04/2022 Sampling Date: 03/04/2022

Reported: 03/10/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: Cool & Intact
Project Number: 15507 Sample Received By: Jodi Henson

Analyzed By: MS

Project Location: MEWBOURNE

mg/kg

Sample ID: WH 1 @ 1' (H220874-22)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/09/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	96.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	93.4	% 59.5-14	2						

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Celey D. Keine



Analytical Results For:

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

Fax To:

Received: 03/04/2022 Sampling Date: 03/04/2022

Reported: 03/10/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: Cool & Intact Sample Received By: Jodi Henson Project Number: 15507

Project Location: **MEWBOURNE**

Sample ID: WH 2 @ SURFACE (H220874-23)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/09/2022	ND	416	104	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	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	97.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	94.1	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

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

Received: 03/04/2022

Sampling Date: 03/04/2022

Reported: 03/10/2022
Project Name: RED HILLS WEST 21 FED COM 2H BATTE

Sampling Type: Soil

Project Name: RED H.
Project Number: 15507

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Project Location: MEWBOURNE

Sample ID: WH 2 @ 1' (H220874-24)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/09/2022	ND	416	104	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	03/09/2022	ND	198	99.2	200	4.39	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	186	92.8	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	95.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	92.3	% 59.5-14	2						

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Celey D. Keine



Analytical Results For:

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

Fax To:

Received: 03/04/2022 Sampling Date: 03/04/2022

Reported: 03/10/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: Cool & Intact Project Number: Sample Received By: Jodi Henson 15507

Project Location: **MEWBOURNE**

Sample ID: WH 3 @ SURFACE (H220874-25)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/09/2022	ND	416	104	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	03/09/2022	ND	211	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	193	96.4	200	18.5	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	82.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	77.7	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 03/04/2022 Sampling Date: 03/04/2022

Reported: 03/10/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: Cool & Intact
Project Number: 15507 Sample Received By: Jodi Henson

Analyzed By: MS

Project Location: MEWBOURNE

mg/kg

Sample ID: WH 3 @ 1' (H220874-26)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/09/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	211	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	193	96.4	200	18.5	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	84.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	80.6	% 59.5-14	2						

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Celey D. Keine



Analytical Results For:

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

Fax To:

Received: 03/04/2022 Sampling Date: 03/04/2022

Reported: 03/10/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: Cool & Intact Project Number: Jodi Henson 15507 Sample Received By:

Project Location: **MEWBOURNE**

Sample ID: WH 4 @ SURFACE (H220874-27)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/09/2022	ND	416	104	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	03/09/2022	ND	211	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	193	96.4	200	18.5	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	92.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	90.0	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 03/04/2022 Sampling Date: 03/04/2022

Reported: 03/10/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: Cool & Intact
Project Number: 15507 Sample Received By: Jodi Henson

Project Location: MEWBOURNE

Sample ID: WH 4 @ 1' (H220874-28)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/09/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	211	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	193	96.4	200	18.5	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	86.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	81.9	% 59.5-14	22						

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Celey D. Keine



Analytical Results For:

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

Received: 03/04/2022 Sampling Date: 03/04/2022

Reported: 03/10/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTI Sampling Condition: Cool & Intact
Project Number: 15507 Sample Received By: Jodi Henson

Project Location: MEWBOURNE

Sample ID: WH 5 @ SURFACE (H220874-29)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	< 0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/09/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	211	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	193	96.4	200	18.5	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	94.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	89.4	% 59.5-14	22						

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Celey D. Kreine



Analytical Results For:

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

Fax To:

Received: 03/04/2022 Sampling Date: 03/04/2022

Reported: 03/10/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: Cool & Intact Project Number: 15507 Sample Received By: Jodi Henson

Project Location: **MEWBOURNE**

Sample ID: WH 5 @ 1' (H220874-30)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2022	ND	1.97	98.4	2.00	5.35	
Toluene*	<0.050	0.050	03/08/2022	ND	1.98	99.1	2.00	5.59	
Ethylbenzene*	<0.050	0.050	03/08/2022	ND	1.91	95.6	2.00	5.47	
Total Xylenes*	<0.150	0.150	03/08/2022	ND	5.97	99.5	6.00	4.37	
Total BTEX	<0.300	0.300	03/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	69.9-14	0						
Chloride, SM4500CI-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	03/09/2022	ND	416	104	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	03/09/2022	ND	211	105	200	14.0	
DRO >C10-C28*	21.8	10.0	03/09/2022	ND	193	96.4	200	18.5	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					
Surrogate: 1-Chlorooctane	106 %	66.9-13	6						
Surrogate: 1-Chlorooctadecane	107 9	6 59.5-14	2						

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Celey D. Keene

S-04



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

Notes and Definitions

3-0-1	The surrogate recovery for this sample is outside or established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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

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Celeg D. Freene

RDINAL LABORATORIES

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

Company Name:	Etech Environmental & Safety So			C.		BI	LL TO			_			ANA	YSIS	REC	QUEST	r	
Project Manager	: Lance Crenshaw				P	.0. #:				T	T							T
Address: P.O.	Box 301				C	ompany:	lewh.	w.ne										
City: Levingto	- Hobbs State: NM	Zip	: 88	88240	A	ttn: Roll:	P	als.										
Phone #- (575	396-2378 Fav #- (575)	396	1420	9		ddress:	× 1721	49.1.9										
Project #: 15	5 o 7 Project Own	er: ‡	211	le Russi.		ity:	-											
Project Name:	Rad Hills Islant 21 Fed	(2	UR-H			Zip:	_		E	18)							
Project Location	507 Project Own Red Hills West 21 Fed Memberine Oil Compan Eric Mojica	- am	. 94	it Delle, J.		hone #:	Lip.		Chloride	TPH (8015M)	BTEX (8021B)							
Sampler Name:	I TEMPONINE OIL COMPAN	14		_		ax #:			을	(%) T	×							
FOR LAB USE ONLY	Lyie Hojica	T	T	MATRIX	I.	PRESERV.	SAMPI	ING	H°	T	376				1			
		e.			T			1			-							
		G)RAB OR (C)OMP	RS	SROUNDWATER WASTEWATER SOIL				1										
Lab I.D.	Sample I.D.	OR (CONTAINERS	SROUNDWATE WASTEWATER SOIL DIL		ACID/BASE: ICE / 900L OTHER :		1										
		AB	TNO	STEV	OTHER	CE / OD THER:												
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05	SP3e5.,f.	G	1	1		1			1	V	V	'						
00	26309,	G	1	1		1	_ <		1	1	1							
07	Sp4eSuf.	G	1	1		1	>		1	1	1							
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09	SP5@Syf.	G	1	1		1	3.4.2	2	1	1	V							
THE PARTY OF THE P	sp5e4'	G	11	1		1	1		V	1	1							
analyses All claims including	Damages, Cardinal's liability and client's exclusive remedy in those for negligence and any office cause whatsoever shall	be deeme	nd wah	e griffine ni obom acolus bor	nd rec	ceived by Cardinal wi	lbin 36 days of	her completion of	The applica	ble								
affiliates or successors ansing	dinat be liable for incidental or consequental damages, inclu- out of or related to the performance of services hereunder t	y Cardine	al, rega	ardless of whether such cial														
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Relinquished By	Date:	R	cei	ved By:														
	Time:																	
Daliyanad D.				Comple Co. II	41.0	CHECK	ED/DV4	Please	email r	esult	s to p	om@ete	echen	.com.				
Delivered By:	2.40	#	110	Sample Condi	tion	CHECK	al A											
Sampler - UPS	Bus - Other:	, ,	11 2	Cool Intact	es	W	4											
	9.10	nertural e profes	-		_	1		-										

FORM-006 Revision 1.0 ARDINAL LABORATORIES

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

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Company Name	Etech Environmental & Safety Solu		, Inc		_		T			81	LL TO				_		AN	ALYS	SIS	REC	QUE	ST	_	
Project Manage	r. Lance Crenshaw						P	.0.1								T	T	T	T	T				
Address: P.O City: Lovingto	Box 301 State: NM	Zip	882	60-	88.	24	0 A	omp	Rol	r: M	e Runn	rne els												
Phone #: (57	5) 396-2378 Fax #: (575) 3	96-1	429				A	ddre	ess:															
Project #: 5	507 Project Owner	= R	obo	ie R	MARC	els	C	ity:							=									
Project Name:	Red Hills West 2 Fed Com 2)	B	to	4			S	tate:	•		Zip:		9	₩9	21E									
Project Location	Red Hills West 21 Fed Com 2) m: Mawbourne Oil Company			_			P	hon	e #:				Chloride	FPH (8015M)	BTEX (8021B)									
Sampler Name:	Eric Mojica						F	ax#	t:				-S	H	X									
FOR LAB USE ONLY	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	MAT		SLUDGE	Ë	ICE / COOL		SAMPLI	NG		Ŧ.	TB BT									
		_	9	8 8	S	등	SLL	Ş	CE	O	DATE	TIME				_	_	_	_	_				
- 11	SPBOS.A.	G	1		1		4	1	1		3.4.22		1	V	1	-	-	-	-	-				
12	27808	G	1	-	1		_	+	V		>		1	J	V	+	+	-	+	_				
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14	SP /e 6	G	11	4	V		-	+	V	\vdash)		V	1	V	+	+	-	+	-				
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Ko	26808.	G	Ш	+	V	4	_	1	V		1		V	1	V	+	+	-	+	4				
17	EH 5eSvif.	G	Ш	+	1	-	-	+	V	Н	1		V	1	1	-	+	+	+	-				
(8)	EH 5el	G	11	-	1		+	\perp	V		1		V	V	V	-	+	+	+	-				
19	SHIES.A.	G	Ш	+	1	_	+	+	V	Н	-		V	V	1	+	-	+	+	+				
	d Damages. Cardina's liability and client's exclusive remedy for a sp those for negligence and any other cause whatsoever client be refined to liable for incidental or consequented damages, including up out of or related to the performance of services hereunder by C Date: 3.4-22	withou ardinal Re	l waker	t carleos en, frusir	mede in	weithq crupife such c	y and re um, ines laim is b	onived it of use, ased up	by Cur , or low pon an	stinual w is of po y of the	ithin 30 days after officience of by c a allove stated re	Phone Result	t:	V Ye		No No		'I Pho						
Relinquished By: Delivered By: Sampler - UPS	Time: Time:	Re		Co	r: mple (ol li	Con	dition				ED BY:	Please e		esults	to p	m@•	eteche	nv.cc	om.					

FORM-006 Revision 1.0

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101 East Marland, Hobbs, NM 88240 (675) 303-2326 EAY (575) 303-2476

3 of 3

Company Name	e: Etech Environmental & Safety Solu		, Inc	c.				3//	44 70						AN	ALYS	IS R	EQUE	ST		
Project Manage	or: Lance Crenshaw				P.	0. #:							Γ								
Address: P.C	D. Box 301				C	ompa	any:	: 1	lewhou	10	1										
City: -Levingt	en-Halls State: NM	Zip	: 88	260-88240	At	tn: 1	06	bie	Runne	Is							1				
Phone #: (57	5) 396-2378 Fax #: (575) 3	396-1	429)		ddres															
Project #: 15	507 Project Owne	r: R	الما	c Rual.	Ci	ity:	-	_ ***													
Project Name:	Red Hills West 21 Fed Com	1 H	R	Head		ate:			Zip:			SM.	2							1	
Project Locatio	State: NM 5) 396-2378 Fax #: (575) 3 Forject Owne Red Hills West 2 Fed Com in: Mawbourne Oil Company	XII	P			hone	#:	-			문	301	Oa								
Sampler Name:	Eric Mojica		_			ax #:		-			Chloride	FPH (8015M)	PTEY (8021R)							1	
FOR LAB USE ONLY	The Profite A	Т	Г	MATRIX		PRE	SE	RV.	SAMPL	NG	ľ	T P	Ta								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	OTHER:	ACID/BASE:	ICE / COOF	OTHER:	DATE	TIME											
21	WHIeS.,f.	G	Ti	1			1		3.4.22		1	1	1								
22	MHIel.	G	1	J			1		>		V	1	V								
2.3	WHZeSut.	G	1	J			1		1		1	1	V	/							
24	MH3@1,	G	1	J			1				1	1		/							
24	WH 3esuf.	G	1	1			1				V	1	V								
26	MH301.	G	1	1			1				1	V	V								
27	WH4 = S., f.	G	1	V	1		1				1	1	1	/							
28	MH401'	G	1	1			1				1	1	V						-		
29	WH5@Suf.	G	1	V	i		1		_		V	1	1	/		_					
30	MH Sel.	G	1				1				1	V	1								
service. In no event shell of affiliates or successors and Relinquished E	Mojue Time: 3.4-22 Time: Date:	Re	d web	ved unless mede in willing an iution, business interruptions, traffess of whether such claim ved By: Ved By: Sammete Committee	loes is be	colored by of use, of seed upo	CHE	of the	edits incurred by a above stated re	client, its subsidie	esuit:	□ Y	es	□ Ne	Add	"I Phoi "I Fax :	Hr.				
Delivered By Sampler - UPS	Date:	Re		ved By:	form		CHE	ÉK		Please e	email ı	result	s to	pm@)eteche	env.co	m.				

FORM-006 Revision 1.0

Received by OCD: 9/2/2022 7:35:31 PM

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May 13, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 2H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/11/22 16:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 05/11/2022 Reported: 05/13/2022 Sampling Date: Sampling Type: Soil

05/11/2022

Project Name:

RED HILLS WEST 21 FED COM 2H BATTE

Sampling Condition:

** (See Notes)

Project Number:

NOT GIVEN

Sample Received By:

Tamara Oldaker

Project Location: MEWBOURNE - JAL, NM

Sample ID: SW 1 B (H222002-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2022	ND	2.10	105	2.00	1.39	
Toluene*	<0.050	0.050	05/12/2022	ND	2.07	103	2.00	2.06	
Ethylbenzene*	<0.050	0.050	05/12/2022	ND	1.95	97.7	2.00	1.31	
Total Xylenes*	<0.150	0.150	05/12/2022	ND	6.06	101	6.00	1.97	
Total BTEX	<0.300	0.300	05/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-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	05/12/2022	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	05/12/2022	ND	211	105	200	10.8	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	198	99.1	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					
Surrogate: 1-Chlorooctane	116	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	117 9	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 05/11/2022 Sampling Date: 05/11/2022 Reported: 05/13/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes)
Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - JAL, NM

Sample ID: WW 1 E (H222002-02)

BTEX 8021B	mg	/kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2022	ND	2.10	105	2.00	1.39	
Toluene*	<0.050	0.050	05/12/2022	ND	2.07	103	2.00	2.06	
Ethylbenzene*	<0.050	0.050	05/12/2022	ND	1.95	97.7	2.00	1.31	
Total Xylenes*	<0.150	0.150	05/12/2022	ND	6.06	101	6.00	1.97	
Total BTEX	<0.300	0.300	05/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/12/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2022	ND	211	105	200	10.8	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	198	99.1	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					
Surrogate: 1-Chlorooctane	116	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	118	% 59.5-14	2						

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Analytical Results For:

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

Fax To:

 Received:
 05/11/2022
 Sampling Date:
 05/11/2022

 Reported:
 05/13/2022
 Sampling Type:
 Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes)
Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - JAL, NM

Sample ID: NW 1 A (H222002-03)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2022	ND	2.10	105	2.00	1.39	
Toluene*	<0.050	0.050	05/12/2022	ND	2.07	103	2.00	2.06	
Ethylbenzene*	<0.050	0.050	05/12/2022	ND	1.95	97.7	2.00	1.31	
Total Xylenes*	<0.150	0.150	05/12/2022	ND	6.06	101	6.00	1.97	
Total BTEX	<0.300	0.300	05/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
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	05/12/2022	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	05/12/2022	ND	211	105	200	10.8	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	198	99.1	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					
Surrogate: 1-Chlorooctane	115	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	114	% 59.5-14	2						

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Analytical Results For:

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

Fax To:

Received: 05/11/2022 Sampling Date: 05/11/2022

Reported: Sampling Type: 05/13/2022 Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes) Tamara Oldaker Project Number: NOT GIVEN Sample Received By:

Project Location: MEWBOURNE - JAL, NM

Sample ID: SW 3 B (H222002-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/13/2022	ND	2.10	105	2.00	1.39	
Toluene*	<0.050	0.050	05/13/2022	ND	2.07	103	2.00	2.06	
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.95	97.7	2.00	1.31	
Total Xylenes*	<0.150	0.150	05/13/2022	ND	6.06	101	6.00	1.97	
Total BTEX	<0.300	0.300	05/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	69.9-14	0						
Chloride, SM4500CI-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	05/12/2022	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	05/12/2022	ND	211	105	200	10.8	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	198	99.1	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					
Surrogate: 1-Chlorooctane	115 %	66.9-13	6						
Surrogate: 1-Chlorooctadecane	116 9	6 59.5-14	2						

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Analytical Results For:

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

Fax To:

Received: 05/11/2022 Sampling Date: 05/11/2022

Reported: 05/13/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes)

Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - JAL, NM

Sample ID: WW 2 A (H222002-05)

BTEX 8021B	mg/	mg/kg		ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/13/2022	ND	2.10	105	2.00	1.39	
Toluene*	<0.050	0.050	05/13/2022	ND	2.07	103	2.00	2.06	
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.95	97.7	2.00	1.31	
Total Xylenes*	<0.150	0.150	05/13/2022	ND	6.06	101	6.00	1.97	
Total BTEX	<0.300	0.300	05/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (P.	ne (PID 99.6 % 69.9-14		10						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/12/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2022	ND	211	105	200	10.8	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	198	99.1	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					
Surrogate: 1-Chlorooctane	118 9	% 66.9-13	16						
Surrogate: 1-Chlorooctadecane	120	% 59.5-14	12						
Surrogate: 1-Chlorooctane	118 9	% 66.9-13	26	ND					

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Analytical Results For:

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

Fax To:

Received: 05/11/2022 Sampling Date: 05/11/2022

Reported: 05/13/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes)
Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Applyzod By: MC/

Project Location: MEWBOURNE - JAL, NM

ma/ka

Sample ID: SW 2 B (H222002-06)

RTFY 8021R

BIEX 8021B	тд/кд		Anaiyze	Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/13/2022	ND	2.10	105	2.00	1.39	
Toluene*	<0.050	0.050	05/13/2022	ND	2.07	103	2.00	2.06	
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.95	97.7	2.00	1.31	
Total Xylenes*	<0.150	0.150	05/13/2022	ND	6.06	101	6.00	1.97	
Total BTEX	<0.300	0.300	05/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	zene (PID 99.5 % 69.9-14		0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	05/12/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2022	ND	211	105	200	10.8	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	198	99.1	200	6.15	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					
Surrogate: 1-Chlorooctane	113	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	114	% 59.5-14	2						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 9 of

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO Company Name: Etech Environmental & Safety Solutions, Inc. **ANALYSIS REQUEST** crensman P.O. #: Project Manager: Address: P.O. Box 301 Company: City: Lovington State: NM Zip: 88260 Attn: Phone #: (575) 396-2378 Fax #: (575) 396-1429 Address: Project #: **Project Owner:** City: TPH (8015M) BTEX (8021B) West #21 Fed Can 2H State: // Zip: 8260 **Project Name:** Project Location: Phone #: Sampler Name: Fax #: FOR LAB USE ONLY MATRIX PRESERV. SAMPLING G)RAB OR (C)OMP SROUNDWATER CONTAINERS **VASTEWATER** ACID/BASE: Lab I.D. Sample I.D. CE / COOL SLUDGE OTHER: OF 4222005 DATE TIME

Relinquished By:	Date: 11-27	Received By:	11111	Phone Result: Fax Result:	Yes Yes	□ No	Add'l Phone #: Add'l Fax #:	
Danigil Casarez	Time: 11,42	Jourera de	dator	REMARKS:	D 100	L NO	PARTITURE IT.	
Relinquished By:	Date:	Received By:		1				
	Time:			Please email	results to	pm@et	techenv.com.	
Delivered By: (Circle One)	7.0c) C-	Sample Condition	CHECKED BY: (Initials)					
Sampler - UPS - Bus - Other:	26.5°C	#12 Yes Yes	Aco.					

FORM-006 Revision 1.0

Received by OCD: 9/2/2022 7:35:31

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



June 23, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 2H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/13/22 16:19.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

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

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)

Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS NM, 88240

Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:25

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW 4 A	H222057-01	Soil	13-May-22 16:16	13-May-22 16:19
EW 1 B	H222057-02	Soil	13-May-22 16:16	13-May-22 16:19
NW 3 B	H222057-03	Soil	13-May-22 16:16	13-May-22 16:19
EW 2 B	H222057-04	Soil	13-May-22 16:16	13-May-22 16:19
SW 5 A	H222057-05	Soil	13-May-22 16:16	13-May-22 16:19
WW 3 B	H222057-06	Soil	13-May-22 16:16	13-May-22 16:19
NW 2 C	H222057-07	Soil	13-May-22 16:16	13-May-22 16:19
WW 4	H222057-08	Soil	13-May-22 16:16	13-May-22 16:19
EW 3 A	H222057-09	Soil	13-May-22 16:16	13-May-22 16:19

06/23/22 - Client changed the sample ID on -08. This is the revised report and will replace the one sent on 05/18/22.

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:25

SW 4 A H222057-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes				
	Cardinal Laboratories													
Inorganic Compounds														
Chloride	176		16.0	mg/kg	4	2051702	GM	17-May-22	4500-Cl-B					
Volatile Organic Compounds b	y EPA Method	8021												
Benzene*	< 0.050		0.050	mg/kg	50	2051604	JH	17-May-22	8021B					
Toluene*	< 0.050		0.050	mg/kg	50	2051604	JH	17-May-22	8021B					
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2051604	ЈН	17-May-22	8021B					
Total Xylenes*	< 0.150		0.150	mg/kg	50	2051604	ЈН	17-May-22	8021B					
Total BTEX	< 0.300		0.300	mg/kg	50	2051604	JH	17-May-22	8021B					
Surrogate: 4-Bromofluorobenzene (PID)			109 %	69.9	-140	2051604	ЈН	17-May-22	8021B					
Petroleum Hydrocarbons by G	C FID													
GRO C6-C10*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B					
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B					
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B					
Surrogate: 1-Chlorooctane			90.9 %	66.9	-136	2051609	MS	16-May-22	8015B					
Surrogate: 1-Chlorooctadecane			100 %	59.5	-142	2051609	MS	16-May-22	8015B					

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:25

EW 1 B

H222057-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	2051702	GM	17-May-22	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2051604	JH	17-May-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2051604	JH	17-May-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2051604	JН	17-May-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2051604	JH	17-May-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2051604	JH	17-May-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	69.9	-140	2051604	ЈН	17-May-22	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
Surrogate: 1-Chlorooctane			96.4 %	66.9	-136	2051609	MS	16-May-22	8015B	
Surrogate: 1-Chlorooctadecane			106 %	59.5	-142	2051609	MS	16-May-22	8015B	

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Celey D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:25

NW 3 B H222057-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	2051702	GM	17-May-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2051604	JH	17-May-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2051604	JH	17-May-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2051604	JH	17-May-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2051604	JН	17-May-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2051604	JH	17-May-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		104 %	69.9	-140	2051604	JH	17-May-22	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
Surrogate: 1-Chlorooctane			85.7 %	66.9	-136	2051609	MS	16-May-22	8015B	
Surrogate: 1-Chlorooctadecane			94.5 %	59.5	-142	2051609	MS	16-May-22	8015B	

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:25

EW 2 B

H222057-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	2051702	GM	17-May-22	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2051604	JH	17-May-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2051604	JН	17-May-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2051604	JH	17-May-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2051604	JH	17-May-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2051604	JH	17-May-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9	-140	2051604	ЈН	17-May-22	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
Surrogate: 1-Chlorooctane			89.1 %	66.9	-136	2051609	MS	16-May-22	8015B	
Surrogate: 1-Chlorooctadecane			98.3 %	59.5	-142	2051609	MS	16-May-22	8015B	

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:25

SW 5 A H222057-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes				
	Cardinal Laboratories													
Inorganic Compounds														
Chloride	208		16.0	mg/kg	4	2051702	GM	17-May-22	4500-Cl-B					
Volatile Organic Compounds	by EPA Method	8021												
Benzene*	< 0.050		0.050	mg/kg	50	2051630	MS\	17-May-22	8021B					
Toluene*	< 0.050		0.050	mg/kg	50	2051630	MS\	17-May-22	8021B					
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2051630	MS\	17-May-22	8021B					
Total Xylenes*	< 0.150		0.150	mg/kg	50	2051630	MS\	17-May-22	8021B					
Total BTEX	< 0.300		0.300	mg/kg	50	2051630	MS\	17-May-22	8021B					
Surrogate: 4-Bromofluorobenzene (PL	D)		103 %	69.9	-140	2051630	MS\	17-May-22	8021B					
Petroleum Hydrocarbons by	GC FID													
GRO C6-C10*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B					
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B					
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B					
Surrogate: 1-Chlorooctane			89.1 %	66.9	-136	2051609	MS	16-May-22	8015B					
Surrogate: 1-Chlorooctadecane			98.4 %	59.5	-142	2051609	MS	16-May-22	8015B					

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:25

WW 3 B

H222057-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	2051702	GM	17-May-22	4500-Cl-B	
Volatile Organic Compounds l	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2051630	$MS \setminus$	17-May-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2051630	$MS \setminus$	17-May-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2051630	$MS \setminus$	17-May-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2051630	$MS \setminus$	17-May-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2051630	$MS \setminus$	17-May-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9	-140	2051630	MS\	17-May-22	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
Surrogate: 1-Chlorooctane			86.4 %	66.9	-136	2051609	MS	16-May-22	8015B	
Surrogate: 1-Chlorooctadecane			95.5 %	59.5	-142	2051609	MS	16-May-22	8015B	

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:25

dx 10:

NW 2 C H222057-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	2051702	GM	17-May-22	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2051630	MS∖	17-May-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2051630	$MS \setminus$	17-May-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2051630	$MS \setminus$	17-May-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2051630	$MS \setminus$	17-May-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2051630	$MS \setminus$	17-May-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9	-140	2051630	MS\	17-May-22	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
Surrogate: 1-Chlorooctane			87.2 %	66.9	-136	2051609	MS	16-May-22	8015B	
Surrogate: 1-Chlorooctadecane			96.3 %	59.5	-142	2051609	MS	16-May-22	8015B	

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:25

WW 4 H222057-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	2051702	GM	17-May-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2051630	MS\	17-May-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2051630	MS\	17-May-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2051630	MS\	17-May-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2051630	MS\	17-May-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2051630	MS\	17-May-22	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		101 %	69.9	-140	2051630	MS\	17-May-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
Surrogate: 1-Chlorooctane			85.4 %	66.9	-136	2051609	MS	16-May-22	8015B	
Surrogate: 1-Chlorooctadecane			95.3 %	59.5	-142	2051609	MS	16-May-22	8015B	

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:25

EW3A H222057-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	2051720	GM	17-May-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2051630	$MS \setminus$	17-May-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2051630	$MS \setminus$	17-May-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2051630	$MS \setminus$	17-May-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2051630	$MS \setminus$	17-May-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2051630	$MS \setminus$	17-May-22	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	D)		102 %	69.9	-140	2051630	MS\	17-May-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2051609	MS	16-May-22	8015B	
Surrogate: 1-Chlorooctane			85.3 %	66.9	-136	2051609	MS	16-May-22	8015B	
Surrogate: 1-Chlorooctadecane			94.6 %	59.5	-142	2051609	MS	16-May-22	8015B	

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:25

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2051702 - 1:4 DI Water										
Blank (2051702-BLK1)				Prepared &	Analyzed:	17-May-22	!			
Chloride	ND	16.0	mg/kg							
LCS (2051702-BS1)				Prepared &	Analyzed:	17-May-22	!			
Chloride	416	16.0	mg/kg	400	·	104	80-120		·	·
LCS Dup (2051702-BSD1)				Prepared &	Analyzed:	17-May-22	!			
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
Batch 2051720 - 1:4 DI Water										
Blank (2051720-BLK1)				Prepared &	Analyzed:	17-May-22				
Chloride	ND	16.0	mg/kg							
LCS (2051720-BS1)				Prepared &	Analyzed:	17-May-22				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (2051720-BSD1)				Prepared &	Analyzed:	17-May-22				
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	

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%REC

Limits

RPD

Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240

Analyte

Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Spike

Level

Fax To:

Reported: 23-Jun-22 13:25

RPD

Limit

Notes

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Source

Result

%REC

Cardinal Laboratories

Units

Reporting

Limit

Result

Blank (2051604-BLK1)				Prepared: 16-May	y-22 Analyzed:	17-May-22			
Benzene	ND	0.050	mg/kg						
Toluene	ND	0.050	mg/kg						
Ethylbenzene	ND	0.050	mg/kg						
Total Xylenes	ND	0.150	mg/kg						
Total BTEX	ND	0.300	mg/kg						
Surrogate: 4-Bromofluorobenzene (PID)	0.0517		mg/kg	0.0500	103	69.9-140			
LCS (2051604-BS1)				Prepared: 16-May	y-22 Analyzed:	17-May-22			
Benzene	1.97	0.050	mg/kg	2.00	98.6	83.4-122			
Toluene	2.00	0.050	mg/kg	2.00	100	84.2-126			
Ethylbenzene	2.00	0.050	mg/kg	2.00	99.8	84.2-121			
m,p-Xylene	4.08	0.100	mg/kg	4.00	102	89.9-126			
o-Xylene	2.01	0.050	mg/kg	2.00	101	84.3-123			
Total Xylenes	6.09	0.150	mg/kg	6.00	101	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0525		mg/kg	0.0500	105	69.9-140			
LCS Dup (2051604-BSD1)				Prepared: 16-Mag	y-22 Analyzed:	17-May-22			
Benzene	2.04	0.050	mg/kg	2.00	102	83.4-122	3.29	12.6	
Toluene	2.04	0.050	mg/kg	2.00	102	84.2-126	2.20	13.3	
Ethylbenzene	2.05	0.050	mg/kg	2.00	102	84.2-121	2.67	13.9	
m,p-Xylene	4.16	0.100	mg/kg	4.00	104	89.9-126	2.13	13.6	
o-Xylene	2.05	0.050	mg/kg	2.00	103	84.3-123	2.01	14.1	
Total Xylenes	6.21	0.150	mg/kg	6.00	104	89.1-124	2.09	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0527		mg/kg	0.0500	105	69.9-140			

Batch 2051630 - Volatiles

Blank (2051630-BLK1)			Prepared: 16-May-22 Analyzed: 17-May-22
Benzene	ND	0.050	mg/kg
Toluene	ND	0.050	mg/kg
Ethylbenzene	ND	0.050	mg/kg
Total Xylenes	ND	0.150	mg/kg

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



%REC

Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Spike

Source

Fax To:

Reported: 23-Jun-22 13:25

RPD

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2051630 - Volatiles										
Blank (2051630-BLK1)				Prepared: 1	6-May-22	Analyzed:	17-May-22			
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0501		mg/kg	0.0500		100	69.9-140			
LCS (2051630-BS1)				Prepared: 1	6-May-22	Analyzed:	17-May-22			
Benzene	1.97	0.050	mg/kg	2.00		98.6	83.4-122			
Toluene	1.94	0.050	mg/kg	2.00		97.0	84.2-126			
Ethylbenzene	1.91	0.050	mg/kg	2.00		95.4	84.2-121			
m,p-Xylene	4.01	0.100	mg/kg	4.00		100	89.9-126			
o-Xylene	1.88	0.050	mg/kg	2.00		93.9	84.3-123			
Total Xylenes	5.89	0.150	mg/kg	6.00		98.1	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0491		mg/kg	0.0500		98.1	69.9-140			
LCS Dup (2051630-BSD1)				Prepared: 1	6-May-22	Analyzed:	17-May-22			
Benzene	2.13	0.050	mg/kg	2.00		107	83.4-122	7.84	12.6	
Toluene	2.10	0.050	mg/kg	2.00		105	84.2-126	8.15	13.3	
Ethylbenzene	2.06	0.050	mg/kg	2.00		103	84.2-121	7.74	13.9	
m,p-Xylene	4.29	0.100	mg/kg	4.00		107	89.9-126	6.83	13.6	
p-Xylene	2.03	0.050	mg/kg	2.00		102	84.3-123	8.04	14.1	
Total Xylenes	6.33	0.150	mg/kg	6.00		105	89.1-124	7.22	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0493		mg/kg	0.0500		98.5	69.9-140			

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Celeg D. Keine



%REC

Limits

RPD

Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240

Analyte

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

Project: RED HILLS WEST 21 FED COM 2H

Source

Result

%REC

86.3

97.8

66.9-136

59.5-142

Project Number: 15507

Project Manager: LANCE CRENSHAW

Spike

Level

Fax To:

Reported: 23-Jun-22 13:25

RPD

Limit

Notes

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

43.1

48.9

Blank (2051609-BLK1)				Prepared & Anal	lyzed: 16-May-2	2			
GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	39.9		mg/kg	50.0	79.9	66.9-136			
Surrogate: 1-Chlorooctadecane	44.2		mg/kg	50.0	88.4	59.5-142			
LCS (2051609-BS1)				Prepared & Anal	lyzed: 16-May-2	2			
GRO C6-C10	190	10.0	mg/kg	200	95.0	78.5-128			
DRO >C10-C28	191	10.0	mg/kg	200	95.3	75.8-135			
Total TPH C6-C28	380	10.0	mg/kg	400	95.1	81.5-127			
Surrogate: 1-Chlorooctane	42.2		mg/kg	50.0	84.4	66.9-136			
Surrogate: 1-Chlorooctadecane	49.1		mg/kg	50.0	98.1	59.5-142			
LCS Dup (2051609-BSD1)				Prepared & Anal	lyzed: 16-May-2	2			
GRO C6-C10	193	10.0	mg/kg	200	96.4	78.5-128	1.45	21.4	
DRO >C10-C28	200	10.0	mg/kg	200	100	75.8-135	5.06	17.9	
Total TPH C6-C28	393	10.0	mg/kg	400	98.3	81.5-127	3.27	17.6	

mg/kg

mg/kg

50.0

50.0

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 16 of 17

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 8824

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Nam	e: Etech Environmental & Safe	ty Solution	ıs, l	Inc.				T			BI	LL TO							ANA	LYS	SIS F	REQU	JEST			
Project Manag	er. Lance Crenshaw							P.	0. #					7				T	T	T	T					
Address: P.	O. Box 301							Co	omp	any	: E	tech			- 1											
City: Loving	ton State:	NM Zi	p: 8	8826	0				tn:	_																
Phone #: (5	75) 396-2378 Fax #:	(575) 396	-142	29				Ac	idre	SS:																
Project #: 5	567 Project	Owner:	1ch	has	-	0	1	-	-	-	ob	65			1											
Project Name:	Red Hill 21 Fee	J Com	- V	7	J I	0	-	-	-	_		Zip:		1.		X	18)									
Project Location	on: Lea			- 5					none	-	24	Lip.			P	101	802					1				
Sampler Name	P (0)	6.110	445					-	X#:					1	Chloride	IPH (8015M)	BTEX (8021B)									
FOR LAB USE ONLY	1 COMINIE LA	MYE	Ť	T	1	MATR	IX	II. a	-	ESE	RV.	SAMPL	NG	٦,		4	BTE									
Lab I.D.	Sample I.D.	ONO(3) BO BY BY BY	" CONTAINED	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	CE / COOL	OTHER:	DATE	TIME													
1	5 W 4 A		T	T							Ť	5/13	4.10	6	1	-	1									
3	EVIB		1	1	11		+					1	1	1	1	1	\Box									
3	NW3B		1	1		1		T				1			T	1										
45	EWZB		T	T		1	T						1		11											
5	5W5 4		T									1	1				П									
4	MM3 D															-										
1	NW26																									
8	WWZB WWY	*																								
9	EW3A		1									3	4	,	V	7	V	_	_	1	-	1	-	-	-	-
enalyses. All claims incluses service. In no event shall defiliates or successors sin Relinquished B	Time: Time:	er shall be deen e, including with sunder by Cardin R	ece	alved unitation gardies	business of whe	ide in wri	ting and ptions, in claim	d rece loss of is bes	ived by f use, o sed upo	y Card or loss on any	inal wi of pro of the	thin 30 days after the incurred by	r completion :	of the application, provine. Result: BUKS:	t:	□ Ye □ Ye	o c		Add		#: Spe	Ber	~ (iehi	122	ch
Delivered By Sampler - UPS	- Bus - Other:	40.4	0	3	Con	ple Co Int Yes Z No L	act				Initi	ED BY:	lease	GIIId	201 10	ouila	to p	THE COLUMN								

FORM-006 Revision 1.0 Released to Imaging: 9/12/2022 11:58:28 AM

Page 17 of 17

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



May 19, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 2H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/17/22 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 05/17/2022 Sampling Date: 05/17/2022 Reported: 05/19/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes)

Project Number: 15507 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - JAL, NM

Sample ID: EW 4 (H222100-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	3.84	
Toluene*	<0.050	0.050	05/18/2022	ND	2.02	101	2.00	2.94	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.00	100	2.00	3.78	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.21	103	6.00	3.85	
Total BTEX	<0.300	0.300	05/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-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	05/18/2022	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	05/18/2022	ND	214	107	200	4.44	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	223	111	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					
Surrogate: 1-Chlorooctane	112 5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	137	% 59.5-14	2						

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Celey D. Keene



Sample Received By:

Analytical Results For:

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

Fax To:

Received: 05/17/2022 Sampling Date: 05/17/2022 Reported: 05/19/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes) Shalyn Rodriguez

Project Location: MEWBOURNE - JAL, NM

15507

Sample ID: WW 6 (H222100-02)

Project Number:

BTEX 8021B	mg,	/kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	3.84	
Toluene*	<0.050	0.050	05/18/2022	ND	2.02	101	2.00	2.94	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.00	100	2.00	3.78	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.21	103	6.00	3.85	
Total BTEX	<0.300	0.300	05/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/18/2022	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	05/18/2022	ND	214	107	200	4.44	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	223	111	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					
Surrogate: 1-Chlorooctane	104	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	124	% 59.5-14	2						

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Celey D. Keene



Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

 Received:
 05/17/2022
 Sampling Date:
 05/17/2022

 Reported:
 05/19/2022
 Sampling Type:
 Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTI Sampling Condition: ** (See Notes)

Project Location: MEWBOURNE - JAL, NM

15507

Sample ID: WW 7 (H222100-03)

Project Number:

BTEX 8021B	mg/	'kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	3.84	
Toluene*	<0.050	0.050	05/18/2022	ND	2.02	101	2.00	2.94	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.00	100	2.00	3.78	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.21	103	6.00	3.85	
Total BTEX	<0.300	0.300	05/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/18/2022	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	05/18/2022	ND	214	107	200	4.44	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	223	111	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					
Surrogate: 1-Chlorooctane	104 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	125 9	% 59.5-14	2						

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Celey D. Keine



Sample Received By:

05/17/2022

Shalyn Rodriguez

Soil

Analytical Results For:

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

Fax To:

Received: 05/17/2022 Sampling Date: Reported: 05/19/2022 Sampling Type:

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - JAL, NM

Sample ID: WW 5 (H222100-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/19/2022	ND	2.01	100	2.00	5.45	
Toluene*	<0.050	0.050	05/19/2022	ND	1.97	98.4	2.00	5.82	
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	1.95	97.4	2.00	4.99	
Total Xylenes*	<0.150	0.150	05/19/2022	ND	6.03	100	6.00	5.26	
Total BTEX	<0.300	0.300	05/19/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/18/2022	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	05/18/2022	ND	214	107	200	4.44	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	223	111	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					
Surrogate: 1-Chlorooctane	101 9	66.9-13	6						
Surrogate: 1-Chlorooctadecane	121 9	6 59.5-14	2						

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Celey D. Keene



Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

Received: 05/17/2022 Sampling Date: 05/17/2022 Reported: 05/19/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - JAL, NM

Sample ID: EW 6 A (H222100-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/19/2022	ND	2.01	100	2.00	5.45	
Toluene*	<0.050	0.050	05/19/2022	ND	1.97	98.4	2.00	5.82	
Ethylbenzene*	< 0.050	0.050	05/19/2022	ND	1.95	97.4	2.00	4.99	
Total Xylenes*	<0.150	0.150	05/19/2022	ND	6.03	100	6.00	5.26	
Total BTEX	<0.300	0.300	05/19/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/18/2022	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	05/18/2022	ND	214	107	200	4.44	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	223	111	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					
Surrogate: 1-Chlorooctane	103 9	66.9-13	6						
Surrogate: 1-Chlorooctadecane	121 9	6 59.5-14	2						

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Analytical Results For:

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

Fax To:

 Received:
 05/17/2022
 Sampling Date:
 05/17/2022

 Reported:
 05/19/2022
 Sampling Type:
 Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes)

Project Number: 15507 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - JAL, NM

Sample ID: NW 4 (H222100-06)

BTEX 8021B	mg	/kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/19/2022	ND	2.01	100	2.00	5.45	
Toluene*	<0.050	0.050	05/19/2022	ND	1.97	98.4	2.00	5.82	
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	1.95	97.4	2.00	4.99	
Total Xylenes*	<0.150	0.150	05/19/2022	ND	6.03	100	6.00	5.26	
Total BTEX	<0.300	0.300	05/19/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/18/2022	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	05/18/2022	ND	214	107	200	4.44	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	223	111	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					
Surrogate: 1-Chlorooctane	98.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	115	% 59.5-14	2						

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Analytical Results For:

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

Fax To:

Received: 05/17/2022 Sampling Date: 05/17/2022 Reported: 05/19/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes) Sample Received By: Shalyn Rodriguez

Project Number: 15507

Project Location: MEWBOURNE - JAL, NM

Sample ID: EW 5 (H222100-07)

BTEX 8021B	mg	/kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/19/2022	ND	2.01	100	2.00	5.45	
Toluene*	<0.050	0.050	05/19/2022	ND	1.97	98.4	2.00	5.82	
Ethylbenzene*	<0.050	0.050	05/19/2022	ND	1.95	97.4	2.00	4.99	
Total Xylenes*	<0.150	0.150	05/19/2022	ND	6.03	100	6.00	5.26	
Total BTEX	<0.300	0.300	05/19/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/18/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	214	107	200	4.44	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	223	111	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					
Surrogate: 1-Chlorooctane	103	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	123	% 59.5-14	2						

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Notes and Definitions

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES

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

Company Name	: Etech Environmental & Safety Solution	ns, Inc.	BILL TO			ANALYSIS REQUEST
Project Manage	r: Lance Crenshav		P.O. #:			
Address: P.O			Company: Me Whou Yo	a oil co		
City: Lovingto	on State: NM 2	ар: 88260	Attn: Robbit Ku	nnels		
Phone #: (575			Address: 48 61 Bus	n Park		
Project #: 15	507 Project Owner:	Mewborn	city: Hobbs			
Project Name:	507 Project Owner: Red Hills 21 Fed	Com 2H	State: N.M. Zip:		218 SIM)	
Project Location	n: rural Jal		Phone #:	Chloride	TPH (8015M) BTEX (8021B)	
Sampler Name:			Fax #:	Ë	I X	
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLI		F F	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER: ACID/BASE: ICE / COOL OTHER:	TIME		
1	EWY		6 17	4.00	1 1	
2	11116					
3	beer 7					
34597	W45					
5	EW6A					
6	NWY EWS			1	4	
1	EWS		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		- 1	
analyses. All claims includi service. In no event shall C	nd Damages, Cardinal's Eability and client's exclusive remedy for any ing thisse for negligence and any other cuse whatseever shall be de ardinal be liable for incidental or consequental damages, including w ing out of or related to the performance of services hereunder by Car	erned verlived unless made in writing no lithout limitation, business interruptions,	d received by Cardinal within 30 days afte loss of use, or loss of profits incurred by o	r completion of the applicab lient, its substituties,	ido .	
Relinquished B	v: Date: 517.22	Received By:		Phone Result: Fax Result:	☐ Yes ☐ No	Add'l Phone #: Add'l Fax #:
1 Jamin	il Cesavel Time: 100	Spendic	MIGIN	REMARKS:	L 168 L NO	Aug I r da w.
Relinguished B	v: Date:	Received By:	1000			
	Time:			Please email n	esults to pm@et	techenv.com.
Delivered By	(Circle One) 35.4° (C-0.	Sample Condition	(Initials)			
Sampler - UPS	(Circle One) 35.4° (-0.	HIS No No	500			

FORM-006 Revision 1.0

Received by OCD: 9/2/2022 7:35:31 PM

Page 10 of 10

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



May 27, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 2H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/20/22 16:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Applyand By 14

Received: 05/20/2022 Reported: 05/27/2022 Sampling Date: 05/20/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition:

Project Number: 15507

** (See Notes) Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - JAL, NM

ma/ka

Sample ID: NW 5 A (H222174-01)

DTEV 0021D

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	05/26/2022	ND	2.01	101	2.00	0.885	
Toluene*	<0.050	0.050	05/26/2022	ND	2.08	104	2.00	2.13	
Ethylbenzene*	<0.050	0.050	05/26/2022	ND	1.99	99.6	2.00	1.33	
Total Xylenes*	<0.150	0.150	05/26/2022	ND	5.95	99.2	6.00	1.20	
Total BTEX	<0.300	0.300	05/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/26/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	Analyzed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2022	ND	197	98.6	200	6.84	
DRO >C10-C28*	<10.0	10.0	05/26/2022	ND	187	93.5	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	05/26/2022	ND					
Surrogate: 1-Chlorooctane	139 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	138 9	% 59.5-14	2						

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Analytical Results For:

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

Fax To:

Received: 05/20/2022 Sampling Date: 05/20/2022 Reported: 05/27/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes)
Project Number: 15507 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - JAL, NM

Sample ID: WW 8 B (H222174-02)

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	05/26/2022	ND	2.01	101	2.00	0.885	
Toluene*	<0.050	0.050	05/26/2022	ND	2.08	104	2.00	2.13	
Ethylbenzene*	<0.050	0.050	05/26/2022	ND	1.99	99.6	2.00	1.33	
Total Xylenes*	<0.150	0.150	05/26/2022	ND	5.95	99.2	6.00	1.20	
Total BTEX	<0.300	0.300	05/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/26/2022	ND	432	108	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	05/26/2022	ND	197	98.6	200	6.84	
DRO >C10-C28*	<10.0	10.0	05/26/2022	ND	187	93.5	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	05/26/2022	ND					
Surrogate: 1-Chlorooctane	138	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	138	% 59.5-14	22						

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Celeg & Freene

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Analytical Results For:

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

Fax To:

 Received:
 05/20/2022
 Sampling Date:
 05/20/2022

 Reported:
 05/27/2022
 Sampling Type:
 Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes)
Project Number: 15507 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - JAL, NM

Sample ID: SW 7 A (H222174-03)

	d Blank BS	% Recovery	True Value QC	RPD	
0.050 0.050 0.050	ID 2.01			KPD	Qualifier
Benzene* <0.050 0.050 05/26/2022	ID 2.01	101	2.00	0.885	
Toluene* <0.050 0.050 05/26/2022	D 2.08	104	2.00	2.13	
Ethylbenzene* <0.050 0.050 05/26/2022	ID 1.99	99.6	2.00	1.33	
Total Xylenes* <0.150 0.150 05/26/2022	D 5.95	99.2	6.00	1.20	
Total BTEX <0.300 0.300 05/26/2022	ID				
Surrogate: 4-Bromofluorobenzene (PID 101 % 69.9-140					
Chloride, SM4500Cl-B mg/kg Analyzed By: A					
Analyte Result Reporting Limit Analyzed Metho	d Blank BS	% Recovery	True Value QC	RPD	Qualifier
Chloride 32.0 16.0 05/26/2022	ID 432	108	400	0.00	
TPH 8015M mg/kg Analyzed By: M	S				
Analyte Result Reporting Limit Analyzed Metho	d Blank BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10* <10.0 10.0 05/26/2022	ID 189	94.6	200	7.35	
DRO >C10-C28* <10.0 10.0 05/26/2022	ID 197	98.5	200	2.02	
EXT DRO >C28-C36 <10.0 10.0 05/26/2022	ID				
Surrogate: 1-Chlorooctane 98.4 % 66.9-136					
Surrogate: 1-Chlorooctadecane 102 % 59.5-142					

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Sample Received By:

Tamara Oldaker

Analytical Results For:

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

Fax To:

Received: 05/20/2022 Sampling Date: 05/20/2022

Reported: 05/27/2022 Sampling Type: Soil
Project Name: RED HILLS WEST 21 FED COM 2H BATTI Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - JAL, NM

Sample ID: WW 9 A (H222174-04)

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	05/27/2022	ND	2.01	101	2.00	0.885	
Toluene*	<0.050	0.050	05/27/2022	ND	2.08	104	2.00	2.13	
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	1.99	99.6	2.00	1.33	
Total Xylenes*	<0.150	0.150	05/27/2022	ND	5.95	99.2	6.00	1.20	
Total BTEX	<0.300	0.300	05/27/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/26/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2022	ND	189	94.6	200	7.35	
DRO >C10-C28*	<10.0	10.0	05/26/2022	ND	197	98.5	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	05/26/2022	ND					
Surrogate: 1-Chlorooctane	104	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	107	% 59.5-14	2						

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Analytical Results For:

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

Fax To:

 Received:
 05/20/2022
 Sampling Date:
 05/20/2022

 Reported:
 05/27/2022
 Sampling Type:
 Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes)
Project Number: 15507 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - JAL, NM

Sample ID: EW 7 B (H222174-05)

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	05/27/2022	ND	2.01	101	2.00	0.885	
Toluene*	<0.050	0.050	05/27/2022	ND	2.08	104	2.00	2.13	
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	1.99	99.6	2.00	1.33	
Total Xylenes*	<0.150	0.150	05/27/2022	ND	5.95	99.2	6.00	1.20	
Total BTEX	<0.300	0.300	05/27/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/26/2022	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	05/26/2022	ND	189	94.6	200	7.35	
DRO >C10-C28*	<10.0	10.0	05/26/2022	ND	197	98.5	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	05/26/2022	ND					
Surrogate: 1-Chlorooctane	106	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	110	% 59.5-14	22						

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Celey D. Keine



Analytical Results For:

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

Received: 05/20/2022 Reported: 05/27/2022 Sampling Date: 05/20/2022 Sampling Type: Soil

Project Name:

RED HILLS WEST 21 FED COM 2H BATTE

Sampling Condition: ** (See Notes) Sample Received By: Tamara Oldaker

Project Number: 15507

Project Location: MEWBOURNE - JAL, NM

Sample ID: SW 6 A (H222174-06)

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	05/27/2022	ND	2.01	101	2.00	0.885	
Toluene*	<0.050	0.050	05/27/2022	ND	2.08	104	2.00	2.13	
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	1.99	99.6	2.00	1.33	
Total Xylenes*	<0.150	0.150	05/27/2022	ND	5.95	99.2	6.00	1.20	
Total BTEX	<0.300	0.300	05/27/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/26/2022	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	05/26/2022	ND	189	94.6	200	7.35	
DRO >C10-C28*	<10.0	10.0	05/26/2022	ND	197	98.5	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	05/26/2022	ND					
Surrogate: 1-Chlorooctane	105 9	66.9-13	6						
Surrogate: 1-Chlorooctadecane	108 9	6 59.5-14	2						

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Celey D. Keene



05/20/2022

Soil

Analytical Results For:

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

Fax To:

Received: 05/20/2022 Sampling Date:

Reported: 05/27/2022 Sampling Type:

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes)
Project Number: 15507 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - JAL, NM

Sample ID: EW 8 B (H222174-07)

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	05/27/2022	ND	2.01	101	2.00	0.885	
Toluene*	<0.050	0.050	05/27/2022	ND	2.08	104	2.00	2.13	
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	1.99	99.6	2.00	1.33	
Total Xylenes*	<0.150	0.150	05/27/2022	ND	5.95	99.2	6.00	1.20	
Total BTEX	<0.300	0.300	05/27/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
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	05/26/2022	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	05/26/2022	ND	189	94.6	200	7.35	
DRO >C10-C28*	<10.0	10.0	05/26/2022	ND	197	98.5	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	05/26/2022	ND					
Surrogate: 1-Chlorooctane	93.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	97.0	% 59.5-14	2						

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Notes and Definitions

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 10 of 10

RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	e: Etech Environmental & Safety Solut	ions	, Inc	.					B	BIL	L TO					A	NAL	YSIS	RE	QUE	ST		
Project Manage	or: Lance Crenghau						P.O). #:															
Address: P.O	D. Box 301						Cor	npa	ıny:	Me	ewbo	urne					1			1			
City: Lovingto	on State: NM	Zip:	882	260			Attn: Robbi Runnels Address: 4801 Busin And																
Phone #: (57	5) 396-2378 Fax #: (575) 3	96-1	429				Add	ires	s: (19/	21 304	in Park						- 1					
Project #: /4	Project Owner						City	<i>/</i> : <i>/</i>	116	66	5				_								
Project Name:	Red Hills 21 fee	1	Co	m	21	H	Sta	te:	NI	N Z	ip:		•	TPH (8015M)	BTEX (8021B)								
Project Location	n: YVYal Jo	1		N/h	1		Pho						Chloride	801	80								
Sampler Name:	Dominic Casa	10	2	,		-	Fax	#:					흜	I	X								
FOR LAB USE ONLY					MATR	IX			SER	V.	SAMPLI	NG		1	BT								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME											
1	NUSA				1					15	5/20	4:05	i	1	1								
2	WW 8 13	-			1						1												
3					4																		
4	BW 1A WW 9 A				1																		
5	EWTB				1										1								
6	5W6A				1					_		1	1	4	1		-						
7	EW8B				/		Ш				4	4	V	7	V		_						
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analyses. All claims include service. In no event shall C additates or successors arisi	and Darmages. Cardinal's flability and client's exclusive remedy for a ling flower for negligence and any other cause whatever shall be cardinal be finite for incidental or consequential damages, including ing out of or related to the performance of services hereunder by C by:	ioemo	d web	ud unions m	ando in ut	Ming on	d recelu	red by	Cardin			Phone Resultant	ica, ic. sult: t:	□ Ye			Add'l P		V :	L			
Delivered By	Date: 20 Time: 08 Date: Time: 08 Time: 08 Time: 08 Time: 08 Time: 08	0,3	000	Coo	pole Co	act			(Tr	ntiai	D BY:	Please e		esults	s to p	m@etec	chenv	.com					
Sampler - UPS	- Bus - Other: 26.9 c	#//	3		No [No	5		Y	0	,												

FORM-006 Revision 1.0

Received by OCD: 9/2/2022 7:35:31 PM



June 23, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS WEST 21 FED COM 2H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/26/22 16:38.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

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

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)

Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS NM, 88240

Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:28

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received		
WW 13 A	H222263-01	Soil	26-May-22 00:00	26-May-22 16:38		
EW 11 A	H222263-02	Soil	26-May-22 00:00	26-May-22 16:38		
WW 10	H222263-03	Soil	26-May-22 00:00	26-May-22 16:38		
EW 12 A	H222263-04	Soil	26-May-22 00:00	26-May-22 16:38		
WW 12 A	H222263-05	Soil	26-May-22 00:00	26-May-22 16:38		
SW 8 A	H222263-06	Soil	26-May-22 00:00	26-May-22 16:38		
WW 15	H222263-07	Soil	26-May-22 00:00	26-May-22 16:38		
SW 9 B	H222263-08	Soil	26-May-22 00:00	26-May-22 16:38		
WW 11 B	H222263-09	Soil	26-May-22 00:00	26-May-22 16:38		
SW 10	H222263-10	Soil	26-May-22 00:00	26-May-22 16:38		
EW 9 A	H222263-11	Soil	26-May-22 16:30	26-May-22 16:38		
EW 10 B	H222263-12	Soil	26-May-22 16:30	26-May-22 16:38		
NW 6	H222263-13	Soil	26-May-22 16:30	26-May-22 16:38		
WW 14	H222263-14	Soil	26-May-22 16:30	26-May-22 16:38		
SW 11 C	H222263-15	Soil	26-May-22 16:30	26-May-22 16:38		

06/23/22 - Client changed the sample ID on -13. This is the revised report and will replace the one sent on 06/03/22.

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:28

WW 13 A H222263-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	528		16.0	mg/kg	4	2053122	GM	31-May-22	4500-Cl-B	
Volatile Organic Compound	ls by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2053110	CK	31-May-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2053110	CK	31-May-22	8021B	
Surrogate: 4-Bromofluorobenzene (F	PID)		97.8 %	69.9	-140	2053110	CK	31-May-22	8021B	
Petroleum Hydrocarbons by	y GC FID									S-04_
GRO C6-C10*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctane			140 %	66.9	-136	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctadecane			160 %	59.5	-142	2052714	MS	28-May-22	8015B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported:

23-Jun-22 13:28

EW 11 A H222263-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	2053123	GM	31-May-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Toluene*	0.123		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2053110	CK	31-May-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2053110	CK	31-May-22	8021B	
Surrogate: 4-Bromofluorobenzene (P	ID)		98.8 %	69.9	-140	2053110	CK	31-May-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctane			120 %	66.9	-136	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctadecane			137 %	59.5	-142	2052714	MS	28-May-22	8015B	

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:28

WW 10 H222263-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	128		16.0	mg/kg	4	2053123	GM	31-May-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Toluene*	0.122		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2053110	CK	31-May-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2053110	CK	31-May-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		101 %	69.9	-140	2053110	CK	31-May-22	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctane			122 %	66.9	-136	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctadecane			138 %	59.5	-142	2052714	MS	28-May-22	8015B	

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Celeg D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:28

EW 12 A H222263-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	208		16.0	mg/kg	4	2053123	GM	31-May-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Toluene*	0.124		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2053110	CK	31-May-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2053110	CK	31-May-22	8021B	
Surrogate: 4-Bromofluorobenzene (P	PID)		99.6 %	69.9	-140	2053110	CK	31-May-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctane			122 %	66.9	-136	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctadecane			138 %	59.5	-142	2052714	MS	28-May-22	8015B	

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:28

WW 12 A H222263-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	2053123	GM	31-May-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2053110	CK	31-May-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2053110	CK	31-May-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		103 %	69.9	-140	2053110	CK	31-May-22	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctane			120 %	66.9	-136	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctadecane			135 %	59.5	-142	2052714	MS	28-May-22	8015B	

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:28

SW 8 A H222263-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	2053123	GM	31-May-22	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Toluene*	0.098		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2053110	CK	31-May-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2053110	CK	31-May-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9	-140	2053110	CK	31-May-22	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctane			116 %	66.9	-136	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctadecane			131 %	59.5	-142	2052714	MS	28-May-22	8015B	

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:28

WW 15 H222263-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	512		16.0	mg/kg	4	2053123	GM	31-May-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2053110	CK	31-May-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2053110	CK	31-May-22	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		99.2 %	69.9	-140	2053110	CK	31-May-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctane			119 %	66.9	-136	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctadecane			134 %	59.5	-142	2052714	MS	28-May-22	8015B	

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:28

SW 9 B

H222263-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	2053123	GM	31-May-22	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2053110	CK	31-May-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2053110	CK	31-May-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			100 %	69.9	-140	2053110	CK	31-May-22	8021B	
Petroleum Hydrocarbons by GC	C FID									S-04
GRO C6-C10*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctane			156 %	66.9	-136	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctadecane			175 %	59.5	-142	2052714	MS	28-May-22	8015B	

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:28

WW 11 B H222263-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	2053123	GM	31-May-22	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2053110	CK	31-May-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2053110	CK	31-May-22	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		102 %	69.9	-140	2053110	CK	31-May-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctane			120 %	66.9	-136	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctadecane			134 %	59.5	-142	2052714	MS	28-May-22	8015B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:28

SW 10 H222263-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	208		16.0	mg/kg	4	2053123	GM	31-May-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2053110	CK	31-May-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2053110	CK	31-May-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		102 %	69.9	-140	2053110	CK	31-May-22	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctane			121 %	66.9	-136	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctadecane			137 %	59.5	-142	2052714	MS	28-May-22	8015B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:28

EW 9 A H222263-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	2053123	GM	31-May-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2053110	CK	31-May-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2053110	CK	31-May-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2053110	CK	31-May-22	8021B	
Surrogate: 4-Bromofluorobenzene (P.	TD)		99.0 %	69.9	-140	2053110	CK	31-May-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctane			117 %	66.9	-136	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctadecane			132 %	59.5	-142	2052714	MS	28-May-22	8015B	

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:28

EW 10 B H222263-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	2053123	GM	31-May-22	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			100 %	69.9	-140	2053111	CK	01-Jun-22	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctane			121 %	66.9	-136	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctadecane			137 %	59.5	-142	2052714	MS	28-May-22	8015B	

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23-Jun-22 13:28



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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

NW 6 H222263-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	112		16.0	mg/kg	4	2053123	GM	31-May-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Surrogate: 4-Bromofluorobenzene (PL	D)		101 %	69.9	-140	2053111	CK	01-Jun-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctane			112 %	66.9-	-136	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctadecane			127 %	59.5	-142	2052714	MS	28-May-22	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:28

WW 14 H222263-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	208		16.0	mg/kg	4	2053123	GM	31-May-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Surrogate: 4-Bromofluorobenzene (P	PID)		97.5 %	69.9	-140	2053111	CK	01-Jun-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctane			121 %	66.9	-136	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctadecane			138 %	59.5	-142	2052714	MS	28-May-22	8015B	

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Celey D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:28

SW 11 C H222263-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	2053123	GM	31-May-22	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Toluene*	0.067		0.050	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2053111	CK	01-Jun-22	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		102 %	69.9	-140	2053111	CK	01-Jun-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctane			121 %	66.9	-136	2052714	MS	28-May-22	8015B	
Surrogate: 1-Chlorooctadecane			137 %	59.5	-142	2052714	MS	28-May-22	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:28

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2053122 - 1:4 DI Water	Result	- Dillit		Dever	resurt	,,,,,	Zimito	14.0	Ziiiit	1.3103
Blank (2053122-BLK1)				Prepared &	z Analyzed:	31-May-22	<u>.</u>			
Chloride	ND	16.0	mg/kg		-	-				
LCS (2053122-BS1)				Prepared &	Analyzed:	31-May-22	2			
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (2053122-BSD1)				Prepared &	Analyzed:	31-May-22	2			
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
Batch 2053123 - 1:4 DI Water										
Blank (2053123-BLK1)				Prepared &	Analyzed:	31-May-22	!			
Chloride	ND	16.0	mg/kg							
LCS (2053123-BS1)				Prepared &	Analyzed:	31-May-22				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (2053123-BSD1)				Prepared &	Analyzed:	31-May-22	2			
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	

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Celey D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 13:28

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

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

Batch	2053110	-	Volatiles

Blank (2053110-BLK1)				Prepared & Anal	yzed: 31-May-2	2			
Benzene	ND	0.050	mg/kg						
Toluene	ND	0.050	mg/kg						
Ethylbenzene	ND	0.050	mg/kg						
Total Xylenes	ND	0.150	mg/kg						
Total BTEX	ND	0.300	mg/kg						
Surrogate: 4-Bromofluorobenzene (PID)	0.0503		mg/kg	0.0500	101	69.9-140			
LCS (2053110-BS1)				Prepared & Anal	yzed: 31-May-2	2			
Benzene	1.95	0.050	mg/kg	2.00	97.3	83.4-122			
Toluene	2.06	0.050	mg/kg	2.00	103	84.2-126			
Ethylbenzene	1.99	0.050	mg/kg	2.00	99.5	84.2-121			
m,p-Xylene	4.01	0.100	mg/kg	4.00	100	89.9-126			
o-Xylene	1.96	0.050	mg/kg	2.00	97.9	84.3-123			
Total Xylenes	5.97	0.150	mg/kg	6.00	99.5	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0534		mg/kg	0.0500	107	69.9-140			
LCS Dup (2053110-BSD1)				Prepared & Anal	yzed: 31-May-2	2			
Benzene	2.05	0.050	mg/kg	2.00	102	83.4-122	5.00	12.6	
Toluene	2.13	0.050	mg/kg	2.00	106	84.2-126	3.20	13.3	
Ethylbenzene	2.03	0.050	mg/kg	2.00	102	84.2-121	2.12	13.9	
m,p-Xylene	4.08	0.100	mg/kg	4.00	102	89.9-126	1.66	13.6	
o-Xylene	2.00	0.050	mg/kg	2.00	100	84.3-123	2.10	14.1	
Total Xylenes	6.08	0.150	mg/kg	6.00	101	89.1-124	1.80	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0515		mg/kg	0.0500	103	69.9-140			

Batch 2053111 - Volatiles

Blank (2053111-BLK1)			Prepared: 31-May-22 Analyzed: 01-Jun-22
Benzene	ND	0.050	mg/kg
Toluene	ND	0.050	mg/kg
Ethylbenzene	ND	0.050	mg/kg
Total Xylenes	ND	0.150	mg/kg

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



%REC

Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Spike

Source

- -

Fax To:

Reported: 23-Jun-22 13:28

RPD

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2053111 - Volatiles										
Blank (2053111-BLK1)				Prepared: 3	1-May-22	Analyzed: (01-Jun-22			
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0506		mg/kg	0.0500		101	69.9-140			
LCS (2053111-BS1)				Prepared: 3	1-May-22	Analyzed: (01-Jun-22			
Benzene	1.96	0.050	mg/kg	2.00		98.2	83.4-122			
Toluene	1.98	0.050	mg/kg	2.00		99.2	84.2-126			
Ethylbenzene	1.93	0.050	mg/kg	2.00		96.6	84.2-121			
m,p-Xylene	3.87	0.100	mg/kg	4.00		96.8	89.9-126			
o-Xylene	1.89	0.050	mg/kg	2.00		94.7	84.3-123			
Total Xylenes	5.76	0.150	mg/kg	6.00		96.1	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0507		mg/kg	0.0500		101	69.9-140			
LCS Dup (2053111-BSD1)				Prepared: 3	1-May-22	Analyzed: (01-Jun-22			
Benzene	2.00	0.050	mg/kg	2.00		99.8	83.4-122	1.68	12.6	
Toluene	2.03	0.050	mg/kg	2.00		101	84.2-126	2.08	13.3	
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.6	84.2-121	2.01	13.9	
m,p-Xylene	3.98	0.100	mg/kg	4.00		99.4	89.9-126	2.73	13.6	
o-Xylene	1.95	0.050	mg/kg	2.00		97.4	84.3-123	2.91	14.1	
Total Xylenes	5.93	0.150	mg/kg	6.00		98.8	89.1-124	2.79	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0510		mg/kg	0.0500		102	69.9-140			

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%REC

Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Source

Project Number: 15507

Project Manager: LANCE CRENSHAW

Spike

Fax To:

Reported: 23-Jun-22 13:28

RPD

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2052714 - General Prep - Organics										
Blank (2052714-BLK1)				Prepared: 2	27-May-22	Analyzed:	28-May-22			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	60.1		mg/kg	50.0		120	66.9-136			
Surrogate: 1-Chlorooctadecane	68.0		mg/kg	50.0		136	59.5-142			
LCS (2052714-BS1)				Prepared &	: Analyzed:	27-May-2	2			
GRO C6-C10	190	10.0	mg/kg	200		94.9	78.5-128			
DRO >C10-C28	193	10.0	mg/kg	200		96.5	75.8-135			
Total TPH C6-C28	383	10.0	mg/kg	400		95.7	81.5-127			
Surrogate: 1-Chlorooctane	64.4		mg/kg	50.0		129	66.9-136			
Surrogate: 1-Chlorooctadecane	73.5		mg/kg	50.0		147	59.5-142			
LCS Dup (2052714-BSD1)				Prepared &	: Analyzed:	27-May-2	2			
GRO C6-C10	188	10.0	mg/kg	200		94.1	78.5-128	0.799	21.4	
DRO >C10-C28	179	10.0	mg/kg	200		89.7	75.8-135	7.31	17.9	
Total TPH C6-C28	368	10.0	mg/kg	400		91.9	81.5-127	4.03	17.6	
Surrogate: 1-Chlorooctane	67.2		mg/kg	50.0		134	66.9-136			
Surrogate: 1-Chlorooctadecane	72.6		mg/kg	50.0		145	59.5-142			

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Celey D. Keene



Notes and Definitions

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(575) 393-2326 FAX (575) 393-2	476																												
Company Name			, In	C.				L		_	BI	LL	TO			_				A	NA	LYS	IS I	REC	QUE	ST				
Project Manage	FULL CIEP STUDE							-	0. 1	_													1							
Address: P.C). Box 301							Co	omp	any	:Me	evi	bourn	coil																
City: Lovingto	on State: NM	Zip	: 88	260				At	tn:	Rol	افار	12	Runn	els																
Phone #: (57	5) 396-2378 Fax #: (575) 3	96-1	429					Ac	ldre	55:	48	011	Busin	Park Block																
Project #:	Project Owne	r:									66					_														
Project Name:	Red Hills 21 Fed Co	M	1	It				St	ate:	N	199	Zip	:		0	- N		21B												
Project Location	n: Cural Jel NAM								one						Chloride	TPH (8015M)		BTEX (8021B)						- 1				1		
Sampler Name:	n: (ural Jel NAM Dominic Casares							Fa	x #:	:					CH	1 7		EX												
FOR LAB USE ONLY		Τ.	Г		M.A	ITR	X		PR	ESE	RV.	3	SAMPLI	NG		F		B												
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER		SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	0	DATE	TIME																
1	WW 13 A				1	1						5	26		1			1												
34	EV 11 4					1							1															I		
3	WW 10					1			L									1												
4	EW12A					1									1	11	1	1	-	-			1	_			1			
5	WW 12 A					K	1	_	L						1	11	4	1	-	+			+	-		-	+	-		
7	3W8A	\vdash	L			1	+	-	-	H		\vdash			4	H	+	1	+	+	_	_	+	+	_	-	+	+		-
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8	5W9B WW11B	-	H			+	+	+	\vdash	-	+	H		-	+	+	+	+	+	+	-		+	+		-	+	+	-	
10	5W10	┥	\vdash	\vdash	1	1	+	+	-	-	Н	6	1		4	V	+	V	+	+	_		+	+		+	+	+		
PLEASE NOTE: Liability or	nd Damages, Cardinal's liability and client's exclusive remedy for a															_	_	Ψ.	_	_			_	_			-	_	_	
malyses. All claims includi service. In no event shall C	ng those for negligence and any other cause whetecever shall be ardinal be liable for incidental or consequental demages, including	withou	ut Bresili	stion, bu	oiness b	nterru	ptions,	loss o	f use,	ar los	s of pr	roffts in	curred by c	Sent, its subsidieri		able														
Relinquished By	ing out of or related to the performance of services hereunder by 0 y: Date:			ved I		er suci	h clain	is be	ed up	ns not	y of the	e abov	e stated re-	Phone Res	o. suft:				No		dd'l	Phon	e #:							
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	- Bus - Other:	5	2	0	ample cool	Int	act				ECK (thit)		BY:	Please er	mail	resu	rts	to p	m@	etec	nen	V.CO	m.							

FORM-006 Revision 1.0

Received by OCD: 9/2/2022 7:35:31 PM

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

580 22

O.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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

Company Name	Etech Environmental & Safety Solu	_	, Inc	2.			T		A	3/1	L	TO				_	-		-	NA	LYSI	SR	EQL	JEST	-			
Project Manage							P.	0. #	_							Г	T	1	Ť				T	T	T	T	T	
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FORM-006 Revision 1.0

Received by OCD: 9/2/2022 7:35:31 PM



June 01, 2022

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

RE: RED HILLS WEST 21 FED COM 2H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/27/22 15:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is 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)

Celey D. Keine

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. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To:

 Received:
 05/27/2022
 Sampling Date:
 05/27/2022

 Reported:
 06/01/2022
 Sampling Type:
 Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Type: ** (See Notes)

Project Number: 15507 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 4 @ SURFACE (H222278-01)

Analyte Benzene*	Result <0.050	Reporting Limit	Analyzed	Method Blank	BS	0/ D			
Benzene*	<0.050	0.050			03	% Recovery	True Value QC	RPD	Qualifier
		0.050	05/31/2022	ND	1.91	95.6	2.00	2.39	
Toluene*	< 0.050	0.050	05/31/2022	ND	1.94	96.8	2.00	1.73	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	1.84	92.1	2.00	2.45	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	5.74	95.7	6.00	2.83	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 69.9-14	0						
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	05/31/2022	ND	400	100	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	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	316	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	117	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	82.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	96.6	% 59.5-14	2						

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Celey D. Keene



Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

Received: 05/27/2022 Sampling Date: 05/27/2022

Reported: 06/01/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATT! Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 4 @ 1 (H222278-02)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	1.91	95.6	2.00	2.39	
Toluene*	<0.050	0.050	05/31/2022	ND	1.94	96.8	2.00	1.73	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	1.84	92.1	2.00	2.45	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	5.74	95.7	6.00	2.83	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/31/2022	ND	400	100	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	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	75.8	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	16.6	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	81.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	84.0	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

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

Received: 05/27/2022 06/01/2022 Sampling Date: 05/27/2022

Reported: Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Type: Soil

Project Number: 15507 Sampling Condition: ** (See Notes) Shalyn Rodriguez Sample Received By:

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 4 @ 2 (H222278-03)

BTEX 8021B	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	1.91	95.6	2.00	2.39	
Toluene*	<0.050	0.050	05/31/2022	ND	1.94	96.8	2.00	1.73	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	1.84	92.1	2.00	2.45	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	5.74	95.7	6.00	2.83	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 5	% 69.9-14	0						
Chloride, SM4500CI-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	06/01/2022	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	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	86.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	85.5	% 59.5-14	2						

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Celey D. Keene



Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

Received: 05/27/2022 Sampling Date: 05/27/2022 Reported: 06/01/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 4 @ 3 (H222278-04)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	1.91	95.6	2.00	2.39	
Toluene*	<0.050	0.050	05/31/2022	ND	1.94	96.8	2.00	1.73	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	1.84	92.1	2.00	2.45	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	5.74	95.7	6.00	2.83	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	69.9-14	0						
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	06/01/2022	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	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	85.8 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	84.3 9	% 59.5-14	2						

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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: 05/27/2022 Sampling Date: 05/27/2022

Reported: 06/01/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes) Project Number: Shalyn Rodriguez 15507 Sample Received By:

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 4 @ 4 (H222278-05)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	1.91	95.6	2.00	2.39	
Toluene*	<0.050	0.050	05/31/2022	ND	1.94	96.8	2.00	1.73	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	1.84	92.1	2.00	2.45	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	5.74	95.7	6.00	2.83	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	06/01/2022	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	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	91.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	90.2	% 59.5-14	2						

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Celey D. Keene



Shalyn Rodriguez

Analytical Results For:

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

Fax To:

Received: 05/27/2022 Sampling Date: 05/27/2022

Reported: 06/01/2022 Sampling Type: Soil
Project Name: RED HILLS WEST 21 FED COM 2H BATTI Sampling Condition: ** (See Notes)

Project Name: RED HILLS WEST 21 FED COM 2H BATTI Sampling Condition:
Project Number: 15507 Sample Received By:

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 5 @ SURFACE (H222278-06)

BTEX 8021B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	1.91	95.6	2.00	2.39	
Toluene*	<0.050	0.050	05/31/2022	ND	1.94	96.8	2.00	1.73	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	1.84	92.1	2.00	2.45	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	5.74	95.7	6.00	2.83	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	06/01/2022	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	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	72.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	74.0	% 59.5-14	2						

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Celey D. Keene



Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

Received: 05/27/2022 Sampling Date: 05/27/2022

Reported: 06/01/2022 Sampling Type: Soil Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 5 @ 1 (H222278-07)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	1.91	95.6	2.00	2.39	
Toluene*	<0.050	0.050	05/31/2022	ND	1.94	96.8	2.00	1.73	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	1.84	92.1	2.00	2.45	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	5.74	95.7	6.00	2.83	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	06/01/2022	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	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	75.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	75.7	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

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

Received: 05/27/2022

Sampling Date: 05/27/2022

Reported: 06/01/2022 Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Type: Soil

Project Number: 15507 Sampling Condition: ** (See Notes) Shalyn Rodriguez Sample Received By:

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 5 @ 2 (H222278-08)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	1.91	95.6	2.00	2.39	
Toluene*	<0.050	0.050	05/31/2022	ND	1.94	96.8	2.00	1.73	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	1.84	92.1	2.00	2.45	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	5.74	95.7	6.00	2.83	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	06/01/2022	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	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	78.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	78.9	% 59.5-14	2						

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Celey D. Keine



Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

Received: 05/27/2022 Sampling Date: 05/27/2022

Reported: 06/01/2022 Sampling Type: Soil
Project Name: RED HILLS WEST 21 FED COM 2H BATTI Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 5 @ 3 (H222278-09)

BTEX 8021B	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	1.91	95.6	2.00	2.39	
Toluene*	<0.050	0.050	05/31/2022	ND	1.94	96.8	2.00	1.73	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	1.84	92.1	2.00	2.45	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	5.74	95.7	6.00	2.83	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	06/01/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	80.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	80.7	% 59.5-14	2						

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Celey D. Keine



Analytical Results For:

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

Received: 05/27/2022 Reported:

Sampling Date: 05/27/2022 06/01/2022 Sampling Type: Soil

Project Name:

RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes) Project Number: 15507 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 5 @ 4 (H222278-10)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	1.91	95.6	2.00	2.39	
Toluene*	<0.050	0.050	05/31/2022	ND	1.94	96.8	2.00	1.73	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	1.84	92.1	2.00	2.45	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	5.74	95.7	6.00	2.83	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	06/01/2022	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	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	85.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	85.5	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

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

Applyzod By: CK

Received: 05/27/2022 Reported: 06/01/2022 Sampling Date: 05/27/2022 Sampling Type:

Project Name:

RTFY 8021R

RED HILLS WEST 21 FED COM 2H BATTE

Soil

Project Number: 15507

Sampling Condition: ** (See Notes) Shalyn Rodriguez Sample Received By:

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 5 @ 6 (H222278-11)

BIEX 8021B	mg	/кд	Anaiyze	а ву: СК					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	1.91	95.6	2.00	2.39	
Toluene*	<0.050	0.050	05/31/2022	ND	1.94	96.8	2.00	1.73	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	1.84	92.1	2.00	2.45	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	5.74	95.7	6.00	2.83	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	06/01/2022	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	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	75.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	74.5	% 59.5-14	2						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

 Received:
 05/27/2022
 Sampling Date:
 05/27/2022

 Reported:
 06/01/2022
 Sampling Type:
 Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 5 @ 8 (H222278-12)

BTEX 8021B	mg	/kg	Analyze	ed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	06/01/2022	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	72.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	72.1	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

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

Received: 05/27/2022 Reported: 06/01/2022 Sampling Date: 05/27/2022 Sampling Type:

Project Name:

RED HILLS WEST 21 FED COM 2H BATTE

Soil ** (See Notes)

Project Number:

Sampling Condition: Sample Received By:

Shalyn Rodriguez

Project Location: MEWBOURNE - JAL, NM

15507

Sample ID: DFS 5 @ 10 (H222278-13)

BTEX 8021B	mg/	kg	Analyze	d By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/01/2022	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	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	78.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	79.3	% 59.5-14	2						

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Celey D. Keene



Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

 Received:
 05/27/2022
 Sampling Date:
 05/27/2022

 Reported:
 06/01/2022
 Sampling Type:
 Soil

Reported: 06/01/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATT! Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 5 @ 12 (H222278-14)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/01/2022	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	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	74.1	% 66.9-13	6						

Analyzed By: CK/

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Celey D. Keene

Surrogate: 1-Chlorooctadecane

Celey D. Keene, Lab Director/Quality Manager

74.8 %

59.5-142



Analytical Results For:

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

Received: 05/27/2022 Reported: 06/01/2022 Sampling Date: 05/27/2022 Sampling Type: Soil

Project Name:

06/01/2022 RED HILLS WEST 21 FED COM 2H BATTE

Sampling Condition: ** (See Notes)

Project Number: 15507

Sample Received By:

Shalyn Rodriguez

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 5 @ 14 (H222278-15)

BTEX 8021B	mg	/kg	Analyze	d By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	06/01/2022	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	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	79.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	77.0	% 59.5-14	22						

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Celey D. Keine



Shalyn Rodriguez

Analytical Results For:

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

Fax To:

Received: 05/27/2022 Sampling Date: 05/27/2022 Reported: 06/01/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE

Project Number: 15507

Project Location: MEWBOURNE - JAL, NM Sampling Condition: ** (See Notes)

Sample Received By:

Sample ID: DFS 1 @ SURFACE (H222278-16)

BTEX 8021B	mg/	'kg	Analyze	d By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1700	16.0	06/01/2022	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	05/31/2022	ND	200	99.8	200	2.39	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.7	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	75.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	73.7	% 59.5-14	2						

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Celey D. Keene



Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

Received: 05/27/2022 Sampling Date: 05/27/2022

Reported: 06/01/2022 Sampling Type: Soil
Project Name: RED HILLS WEST 21 FED COM 2H BATTI Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 1 @ 4 (H222278-17)

BTEX 8021B	mg/kg		Analyzed By: CK/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	06/01/2022	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	88.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	89.7	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 05/27/2022 Sampling Date: 05/27/2022

Reported: 06/01/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes)

Project Number: 15507 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 1 @ 6 (H222278-18)

BTEX 8021B	mg	/kg	Analyze	d By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	< 0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	06/01/2022	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	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	93.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	89.7	% 59.5-14	22						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

 Received:
 05/27/2022
 Sampling Date:
 05/27/2022

 Reported:
 06/01/2022
 Sampling Type:
 Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTI Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 1 @ 8 (H222278-19)

BTEX 8021B	mg,	/kg	Analyze	d By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	06/01/2022	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	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	88.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	87.4	% 59.5-14	22						

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Celey D. Keene



Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

 Received:
 05/27/2022
 Sampling Date:
 05/27/2022

 Reported:
 06/01/2022
 Sampling Type:
 Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 1 @ 9 (H222278-20)

BTEX 8021B	mg	/kg	Analyze	d By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 69.9-14	0						
Chloride, SM4500CI-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	06/01/2022	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	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	91.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	90.9	% 59.5-14	2						

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Analytical Results For:

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

Fax To:

Received: 05/27/2022 Sampling Date: 05/27/2022 Reported: 06/01/2022 Sampling Type: Soil

Project Name:

Project Number: 15507

Project Location: MEWBOURNE - JAL, NM

RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes) Sample Received By: Shalyn Rodriguez

Sample ID: DFS 2 @ SURFACE (H222278-21)

BTEX 8021B	mg	/kg	Analyze	ed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	06/01/2022	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	11.3	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	74.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	73.9	% 59.5-14	2						

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Celey D. Keene



Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

 Received:
 05/27/2022
 Sampling Date:
 05/27/2022

 Reported:
 06/01/2022
 Sampling Type:
 Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTI Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 2 @ 1 (H222278-22)

BTEX 8021B	mg	/kg	Analyze	d By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/01/2022	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	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	94.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	92.8	% 59.5-14	2						

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Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

 Received:
 05/27/2022
 Sampling Date:
 05/27/2022

 Reported:
 06/01/2022
 Sampling Type:
 Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTI Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 2 @ 2 (H222278-23)

BTEX 8021B	mg	/kg	Analyze	d By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-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	06/01/2022	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	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	94.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	91.7	% 59.5-14	12						

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Celey & Keene



Analytical Results For:

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

Applyzod By: CV/

Received: 05/27/2022 Reported: 06/01/2022 Sampling Date: 05/27/2022 Sampling Type:

Project Name:

RTFY 8021R

Soil

Project Number:

RED HILLS WEST 21 FED COM 2H BATTE

Sampling Condition: ** (See Notes)

15507

Sample Received By:

Shalyn Rodriguez

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 2 @ 3 (H222278-24)

BIEX 8021B	mg	/кд	Anaiyze	a By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 69.9-14	0						
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	06/01/2022	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	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	89.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	87.8	% 59.5-14	2						

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Celey D. Keene



Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

 Received:
 05/27/2022
 Sampling Date:
 05/27/2022

 Reported:
 06/01/2022
 Sampling Type:
 Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTI Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 3 @ SURFACE (H222278-25)

BTEX 8021B	mg	/kg	Analyze	d By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	05/31/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	6.23	104	6.00	2.71	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19300	16.0	06/01/2022	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	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	88.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	85.3	% 59.5-14	2						

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Celey D. Keene



Shalyn Rodriguez

Analytical Results For:

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

Fax To:

Received: 05/27/2022 Sampling Date: 05/27/2022

Reported: 06/01/2022 Sampling Type: Soil
Project Name: RED HILLS WEST 21 FED COM 2H BATTI Sampling Condition: ** (See Notes)

Project Name: RED HILLS WEST 21 FED COM 2H BATTI Sampling Condition:
Project Number: 15507 Sample Received By:

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 3 @ 3 (H222278-26)

BTEX 8021B	mg/	/kg	Analyzed By: CK/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	06/01/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.23	104	6.00	2.71	
Total BTEX	<0.300	0.300	06/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	06/01/2022	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	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	90.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	86.5	% 59.5-14	22						

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 05/27/2022 Sampling Date: 05/27/2022

Reported: 06/01/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes)

Project Number: 15507 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 3 @ 4 (H222278-27)

BTEX 8021B	mg	/kg	Analyze	d By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	06/01/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.23	104	6.00	2.71	
Total BTEX	<0.300	0.300	06/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-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	06/01/2022	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	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	84.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	81.4	% 59.5-14	22						

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Celey D. Keine



Analytical Results For:

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

Received: 05/27/2022 Reported: 06/01/2022

Project Name: RED HILLS WEST 21 FED COM 2H BATTE

Project Number: 15507

Project Location: MEWBOURNE - JAL, NM

Sampling Date: 05/27/2022

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: DFS 6 @ SURFACE (H222278-28)

BTEX 8021B	mg	/kg	Analyze	ed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	06/01/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.23	104	6.00	2.71	
Total BTEX	<0.300	0.300	06/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	06/01/2022	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	96.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	92.8	% 59.5-14	22						

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Analytical Results For:

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

Fax To:

Received: 05/27/2022 Sampling Date: 05/27/2022

Reported: 06/01/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes)

Project Number: 15507 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 6 @ 4 (H222278-29)

BTEX 8021B	mg,	/kg	Analyze	d By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	06/01/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.23	104	6.00	2.71	
Total BTEX	<0.300	0.300	06/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9520	16.0	06/01/2022	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	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	105	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	101	% 59.5-14	2						

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Analytical Results For:

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

Fax To:

Received: 05/27/2022 Sampling Date: 05/27/2022

Reported: 06/01/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes)

Project Number: 15507 Sample Received By: Shalyn Rodriguez

Applyzod By: CV/

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 6 @ 6 (H222278-30)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2022	ND	2.03	102	2.00	3.58	
Toluene*	<0.050	0.050	06/01/2022	ND	2.03	102	2.00	2.66	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.01	101	2.00	3.16	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.23	104	6.00	2.71	
Total BTEX	<0.300	0.300	06/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10300	16.0	06/01/2022	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	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	102	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	99.0	% 59.5-14	2						

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Analytical Results For:

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

Fax To:

Received: 05/27/2022 Sampling Date: 05/27/2022

Reported: 06/01/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTE Sampling Condition: ** (See Notes)

Project Number: 15507 Sample Received By: Shalyn Rodriguez

Applyzod By: CV/

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 6 @ 8 (H222278-31)

RTFY 8021R

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	06/01/2022	ND	2.03	102	2.00	3.58	
<0.050	0.050	06/01/2022	ND	2.03	102	2.00	2.66	
<0.050	0.050	06/01/2022	ND	2.01	101	2.00	3.16	
<0.150	0.150	06/01/2022	ND	6.23	104	6.00	2.71	
<0.300	0.300	06/01/2022	ND					
100 9	% 69.9-14	0						
mg/	/kg	Analyze	d By: GM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
2440	16.0	06/01/2022	ND	416	104	400	0.00	
mg/	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	05/31/2022	ND	199	99.7	200	4.22	
<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
<10.0	10.0	05/31/2022	ND					
92.6	% 66.9-13	6						
90.5	% 59.5-14	2						
_	<0.050 <0.050 <0.050 <0.150 <0.300 100 9 Result 2440 mg/ Result <10.0 <10.0 92.6	<0.050 <0.050 <0.050 <0.050 <0.050 <0.150 <0.300 0.300 100 % 69.9-14 mg/kg Result Reporting Limit 2440 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0 <66.9-13	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

 Received:
 05/27/2022
 Sampling Date:
 05/27/2022

 Reported:
 06/01/2022
 Sampling Type:
 Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTI Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 6 @ 12 (H222278-32)

BTEX 8021B	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2022	ND	1.97	98.6	2.00	1.11	
Toluene*	<0.050	0.050	06/01/2022	ND	1.99	99.4	2.00	1.27	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.88	93.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	5.88	98.0	6.00	0.922	
Total BTEX	<0.300	0.300	06/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte			Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1710	16.0	06/01/2022	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	96.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	92.3	% 59.5-14	12						

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Celey D. Keene



Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

 Received:
 05/27/2022
 Sampling Date:
 05/27/2022

 Reported:
 06/01/2022
 Sampling Type:
 Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATTI Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 6 @ 14 (H222278-33)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2022	ND	1.97	98.6	2.00	1.11	
Toluene*	<0.050	0.050	06/01/2022	ND	1.99	99.4	2.00	1.27	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.88	93.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	5.88	98.0	6.00	0.922	
Total BTEX	<0.300	0.300	06/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	06/01/2022	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	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	90.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	86.1	% 59.5-14	2						

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Analytical Results For:

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

Applyzod By: CK

Fax To:

Received: 05/27/2022 Reported: 06/01/2022 Sampling Date: 05/27/2022 Sampling Type: Soil

Project Name:

RTFY 8021R

RED HILLS WEST 21 FED COM 2H BATTE

Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Project Number: 15507

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 6 @ 16 (H222278-34)

BIEX 8021B	mg	/кд	Anaiyze	а ву: СК					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2022	ND	1.97	98.6	2.00	1.11	
Toluene*	<0.050	0.050	06/01/2022	ND	1.99	99.4	2.00	1.27	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.88	93.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	5.88	98.0	6.00	0.922	
Total BTEX	<0.300	0.300	06/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
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	06/01/2022	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	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	104	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	100	% 59.5-14	2						

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Analytical Results For:

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

Fax To:

Received: 05/27/2022 Sampling Date:

Reported: 06/01/2022 Project Name: RED HILLS WEST 21 FED COM 2H BATTE

Project Number: 15507

Project Location: MEWBOURNE - JAL, NM Sampling Type: Soil Sampling Condition: ** (See Notes)

Sample Received By:

Shalyn Rodriguez

05/27/2022

Sample ID: DFS 6 @ 18 (H222278-35)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2022	ND	1.97	98.6	2.00	1.11	
Toluene*	<0.050	0.050	06/01/2022	ND	1.99	99.4	2.00	1.27	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.88	93.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	5.88	98.0	6.00	0.922	
Total BTEX	<0.300	0.300	06/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-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	06/01/2022	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	05/31/2022	ND	199	99.7	200	4.22	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	181	90.3	200	5.98	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	93.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	88.3	% 59.5-14	2						

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Celey D. Keene



Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

Received: 05/27/2022 Sampling Date: 05/27/2022

Reported: 06/01/2022 Sampling Type: Soil
Project Name: RED HILLS WEST 21 FED COM 2H BATTI Sampling Condition: ** (See Notes)

Project Name: RED HILLS WEST 21 FED COM 2H BATT!
Project Number: 15507

Project Location: MEWBOURNE - JAL, NM

Sample ID: DFS 6 @ 20 (H222278-36)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2022	ND	1.97	98.6	2.00	1.11	
Toluene*	<0.050	0.050	06/01/2022	ND	1.99	99.4	2.00	1.27	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.88	93.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	5.88	98.0	6.00	0.922	
Total BTEX	<0.300	0.300	06/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte			Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/01/2022	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	05/31/2022	ND	183	91.6	200	8.60	
DRO >C10-C28*	<10.0	10.0	05/31/2022	ND	177	88.5	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	05/31/2022	ND					
Surrogate: 1-Chlorooctane	113 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	128	% 59.5-14	2						

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Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

Received: 05/27/2022 Sampling Date: 05/27/2022

Reported: 06/01/2022 Sampling Type: Soil

Project Name: RED HILLS WEST 21 FED COM 2H BATT! Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - JAL, NM

80.3 %

90.8 %

66.9-136

59.5-142

Sample ID: DFS 6 @ 22 (H222278-37)

BTEX 8021B

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
< 0.050	0.050	06/01/2022	ND	1.97	98.6	2.00	1.11	
< 0.050	0.050	06/01/2022	ND	1.99	99.4	2.00	1.27	
< 0.050	0.050	06/01/2022	ND	1.88	93.9	2.00	1.42	
<0.150	0.150	06/01/2022	ND	5.88	98.0	6.00	0.922	
<0.300			ND					
101 %	101 % 69.9-140							
mg/	mg/kg		d By: GM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
256	16.0	06/01/2022	ND	416	104	400	0.00	
mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	05/31/2022	ND	183	91.6	200	8.60	
<10.0	10.0	05/31/2022	ND	177	88.5	200	14.6	
<10.0	10.0	05/31/2022	ND					
-	<0.050 <0.050 <0.050 <0.150 <0.300 1019 mg/ Result 256 mg/ Result <10.0 <10.0	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300 101 % 69.9-14 mg/kg Result Reporting Limit 256 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Analyzed By: CK

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

RDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	e: Etech Environmental & Safety So	utions	, In	C.				T			BI	L	LTO							AN	ALY	SIS	RE	EQU	IES'	Т		
Project Manage	er: Zanc Crensha	U						P.	0. 1	k:							1			T	T	T			T			
Address: P.C	D. Box 301							C	omp	oan	y: //	le	Wbou	rne		1					1	- 1						
City: Lovingt	on State: NM	Zip	: 88	260)			At	tn:	2	bhi	1	Ruge	els			1		1									
Phone #: (57	75) 396-2378 Fax #: (575)	396-1	1429)										Park block		1	1				1					- 1		
Project #: 15	507 Project Own	er:									obt			134307114			1											
Project Name:	Red Will 21 Ed		,	2	Y			_	_	_	M	_				2		BTEX (8021B)				- 1				- 1		
Project Location	Red Hills 21 Fed			12.	-	70	1		hon				p		Chloride	TPH (8015M)		802	1									
Sampler Name:	: Dominic Cacarch		-17	Vi	MAL	on	1	-	ax #	_	-	_			울	89		×				- 1						
FOR LAB USE ONLY	Lowing Caexies	1	1		M	ATR	IX	Ire	-		ERV.	Г	SAMPL	ING	0	臣		31	1							- 1		
		9	1			T	1	T	1	T		1					1	_	1	1		- 1				1		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	MASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:		DATE	TIME														
1	DFS 4@ Surf	1	1	ř		2			1				5 27				1	1										
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3345	DF5 4 6 2	1	1									6	521			17		1										
4.	DF 6 4 8 3			T		1			T			6	5 27			17		1										
5	DES UQU											3	5 47			П		T										
6	DFS 5@ SUF											5	27			11												
,	DES SQI								Г			2	27			1												
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9	DF \$ 5@3											3	5 27					1										
10	DF5 6@4					A						1	5 27		A	A		V										
PLEASE NOTE: Liability of analyses. All claims include	and Damages. Cardinal's liability and client's exclusive remody fi ting those for negligence and any other cause whatecover shall														the he applica	nblo												
	Cardinal be liable for incidental or consequental demages, inclu- sing out of or related to the performance of services hereunder I														ries, no.													
Relinquished B	Time: 1541	a Re		-	By:	ME	Zic	m	1	2	1	7		Fax Resul	lt:		Yes		No No		i'l Pho		k:					
Relinquished B	Date: Time:	(scai	•				•						Please e	mail	neeu	ıtte	to r	m@4	itech	anv c	nım						
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RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name	: Etech Environmental & Safety Solut	ions	, In	C.						B	IL.	L TO					ANALYSIS	REQU	EST	
Project Manage	r. Lance Crenshaw							P.C). #:											
Address: P.O								Co	mpa	ny:	Ne	Wboirn	e ail						1 1	
City: Lovingto	on State: NM	Zip	:88	260								AUNK								1
Phone #: (57	5) 396-2378 Fax #: (575) 3	96-1	1429)									hrkbly						1 1	
Project #: 15	507 Project Owner									401										
Project Name:			Ma	21	2					-		Zip:			E	3TEX (8021B)			1 1	
Project Location		-00		-			_		one		/ (*	Lib.		Chloride	TPH (8015M)	802			1 1	
Sampler Name:	-	_	_	_					C#:		_			욽	8	×			1 1	
FOR LAB USE ONLY	DOMINIC CONCRET		T	T	M	ATRI	X		_	SER	v.	SAMPLI	NG	0	F	376				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OI HEK:	DATE	TIME							
11	Pfs 5@6		Г	Г							T	527		1	1	1				
12	DFS 6 @ 8										T				1					
13	DF5 5@10										T				1					
14	DFS 5@12										T				1					
14	DF 3 6@ 14																			
17	DFS 1@ Sulf																			
17	DF3 1@4																			
18	DFS 106											1								
19	DF3 1 @ 8					/														
20	DFS 109											0		V	7	4				

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Relinquished By:	Date:	Received By:	Phone Result: Yes No Add'l Phone #:
about	Time: 1546	Spodeigner	Fax Result:
Relinquished By:	Date:	Received By:	
	Time:		Please email results to pm@etechenv.com.
Delivered By: (Circle One)	0000	Sample Condition CHECKED B	
Sampler - UPS - Bus - Other:	21.50 #	13 PNO NO R	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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

Company Name	: Etech Environmental	& Safety Solution	ms,	Inc.						BIL	LL TO						ANA	LYSI	S RE	QUES	T	
Project Manage	r: Lanc	Crensh	26	/				P.O.	#:													
Address: P.C								Com	pany	: 1/4	ew bour	n oil										
City: Lovingto	on s	State: NM 2	ip:	8826	0		_				ie Kur											
Phone #: (57	5) 396-2378	Fax #: (575) 39	6-14	29								Mr KBIU										
Project #: 15	507	Project Owner:						City:							-							li
Project Name:	Red Hills	21 Gods	100	. 1	14			State		-	_			SM)	18							
Project Location	n: rulal Jel	NIK	000		-11			Phor					Chloride	TPH (8015M)	STEX (8021B)							
Sampler Name:	101001 000	164.10	2				- 1	Fax (-				충	I	X							
FOR LAB USE ONLY	1 /02.5/	200,0	Т			ATR			RESE	RV.	SAMPL	iiųG		1	E							
Lab I.D.	Sample I.D).	(G)RAB OR (C)OMP	# CONTAINERS	WASTEWATER	SOIL	SLUDGE	OTHER:	ICE / COOL	OTHER:	DATE	TIME										
	PFS 28 Surf		Ť	T		1/2		T			5 27		,	1	1							
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39	DFS6@SVrf												V	1								1
	DF56@6					1					v			_	14							
PLEASE NOTE: Liability a analyses. All claims includ	nd Demages, Cardinal's liability and client's ing those for negligence and any other cau	s anclusive remedy for any see whatsoever shall be de	emed	Ampied o	udoss ma	do in wi	ting and	received	by Car	deal w	Min 30 days all	er completion of th	the to applica	ble								
service. In no event shall C affiliates or successors aris	ing out of or related to the performance of		dinal,	regardie	es of whe							seeins or otherwis	100,	-								
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	: Etech Environmental & Safety Solut	ions,	Inc				T			B	IL	L TO							AN	LYS	SIS	RE	QU	ST			
Project Manage	r. Lanc Crenshav						1	P.O.	#:							T								T	T		
Address: P.C	D. Box 301							Com	npa	ny:/	M	en boi	rhoil			1											
City: Lovingto	on State: NM	Zip:	882	260			1	Attn	: R	e b	bic	· Konn	215								1						
Phone #: (57	5) 396-2378 Fax #: (575) 3	96-14	429						-				Resta														
Project #: 15	507 Project Owner									106			LO CORP	1					1								
Project Name:	Red Hills 21 feet	Cou		21	1		_			M	-				N N		18)										
	n: Coral Ja AM			-				Pho						Chloride	TPH (8015M)		BTEX (8021B)										
Sampler Name:	n: rural JalAM. Dominic Casaroz						-	Fax		-				美	H		X										
FOR LAB USE ONLY	Dominic Usaret				MAT	RIX	_	_		SER	V.	SAMPL	ING	1	F	1	BTE										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	O THEN	DATE	TIME														
31	DFS 608	Ĭ									1	577		1	,										T		
37 33 33 34 35 36 37	DFS 6@ 12			\Box	1			T	1		1	1				1	1				1						
33	DF< 60, 14														П	T	1			T							
34	DF3 68 16																1										
35	DES 60 18																										
36	DF5 6@ 20														[(
37	DFS 60 20 DFS 60 22																										
															1												
DC 527					1							4		-	14	T.	₹										
PLEASE NOTE: Liability of analyses. All claims include service. In no event shall C afflictes or successors aris	mit Dianages. Cardina's lability and clien'ts exclusive remedy for ling those for negligence and any other cause whetenever shall be Surdinal be liable for incidental or consequential duranges, including sing out of or related to the performance of services hereunder by C	deemed udbes ardinal	t Nube t Bude reger	id union doe, but does of	made ir inose int whether	undir urupi	ig and i	receive us of u	nd by (Cardina Iona al	al will f prod	hin 30 days afte his incurred by	er completion of the client, its subsidier secons or otherwis	he applica des, se,													
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Delivered By Sampler - UPS	- Bus - Other: 22.0° C.0.	52		C	mple ool Yes No	Inta	ct		3	(Ir	CKE	D BY:			3001		- PI										

FORM-006 Revision 1.0 Page 43 of 43

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



June 23, 2022

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

RE: RED HILLS WEST 21 FED COM 2H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/09/22 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

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

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)

Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

Project: RED HILLS WEST 21 FED COM 2H

Reported: 23-Jun-22 14:08

2617 W MARLAND HOBBS NM, 88240 Project Number: 15507

23-Juli

Project Manager: LANCE CRENSHAW Fax To:

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW 12	H222473-01	Soil	09-Jun-22 00:00	09-Jun-22 16:40
SW 13	H222473-02	Soil	09-Jun-22 00:00	09-Jun-22 16:40
EW 14	H222473-03	Soil	09-Jun-22 00:00	09-Jun-22 16:40
EW 13	H222473-04	Soil	09-Jun-22 00:00	09-Jun-22 16:40

06/23/22 - Client changed the sample ID on -03. This is the revised report and will replace the one sent on 06/14/22.

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Celeg D. Keene

Reported:

23-Jun-22 14:08



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

Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

: 1550/

Project Manager: LANCE CRENSHAW

Fax To:

SW 12 H222473-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	2061019	AC	10-Jun-22	4500-Cl-B	
Volatile Organic Compounds by	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			95.9 %	69.9	-140	2061016	JH/	10-Jun-22	8021B	
Petroleum Hydrocarbons by Go	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2061011	MS	10-Jun-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2061011	MS	10-Jun-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2061011	MS	10-Jun-22	8015B	
Surrogate: 1-Chlorooctane			71.8 %	66.9	-136	2061011	MS	10-Jun-22	8015B	
Surrogate: 1-Chlorooctadecane			80.2 %	59.5	-142	2061011	MS	10-Jun-22	8015B	

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Celey D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 14:08

SW 13 H222473-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	2061019	AC	10-Jun-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		97.0 %	69.9	-140	2061016	JH/	10-Jun-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2061011	MS	14-Jun-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2061011	MS	14-Jun-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2061011	MS	14-Jun-22	8015B	
Surrogate: 1-Chlorooctane			123 %	66.9	-136	2061011	MS	14-Jun-22	8015B	
Surrogate: 1-Chlorooctadecane			128 %	59.5	-142	2061011	MS	14-Jun-22	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 14:08

EW 14 H222473-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	2061019	AC	10-Jun-22	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			96.5 %	69.9	-140	2061016	JH/	10-Jun-22	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2061011	MS	13-Jun-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2061011	MS	13-Jun-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2061011	MS	13-Jun-22	8015B	
Surrogate: 1-Chlorooctane			89.0 %	66.9	-136	2061011	MS	13-Jun-22	8015B	
Surrogate: 1-Chlorooctadecane			93.8 %	59.5	-142	2061011	MS	13-Jun-22	8015B	

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Celey D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 14:08

EW 13 H222473-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	2061019	AC	10-Jun-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2061016	JH/	10-Jun-22	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		97.1 %	69.9	-140	2061016	JH/	10-Jun-22	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2061011	MS	10-Jun-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2061011	MS	10-Jun-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2061011	MS	10-Jun-22	8015B	
Surrogate: 1-Chlorooctane			67.2 %	66.9	-136	2061011	MS	10-Jun-22	8015B	
Surrogate: 1-Chlorooctadecane			72.7 %	59.5	-142	2061011	MS	10-Jun-22	8015B	

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Celey D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 14:08

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2061019 - 1:4 DI Water										
Blank (2061019-BLK1)				Prepared &	Analyzed:	10-Jun-22				
Chloride	ND	16.0	mg/kg							
LCS (2061019-BS1)				Prepared &	Analyzed:	10-Jun-22				
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (2061019-BSD1)				Prepared &	Analyzed:	10-Jun-22				
Chloride	416	16.0	mg/kg	400		104	80-120	3.77	20	

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%REC

Limits

RPD

Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240

Analyte

o-Xylene

Total Xylenes

Surrogate: 4-Bromofluorobenzene (PID)

Project: RED HILLS WEST 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Spike

Level

Source

Result

%REC

94.3

97.9

95.7

84.3-123

89.1-124

69.9-140

10.3

14.1

13.4

Fax To:

Reported: 23-Jun-22 14:08

RPD

Limit

Notes

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

1.89

5.87

0.0479

0.050

0.150

mg/kg

mg/kg

mg/kg

2.00

6.00

0.0500

Blank (2061016-BLK1)				Prepared & Analy	yzed: 10-Jun-22				
Benzene	ND	0.050	mg/kg						
Toluene	ND	0.050	mg/kg						
Ethylbenzene	ND	0.050	mg/kg						
Total Xylenes	ND	0.150	mg/kg						
Total BTEX	ND	0.300	mg/kg						
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500	99.3	69.9-140			
LCS (2061016-BS1)				Prepared & Analy	yzed: 10-Jun-22				
Benzene	2.21	0.050	mg/kg	2.00	110	83.4-122			
Toluene	2.18	0.050	mg/kg	2.00	109	84.2-126			
Ethylbenzene	2.12	0.050	mg/kg	2.00	106	84.2-121			
m,p-Xylene	4.47	0.100	mg/kg	4.00	112	89.9-126			
o-Xylene	2.09	0.050	mg/kg	2.00	104	84.3-123			
Total Xylenes	6.56	0.150	mg/kg	6.00	109	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0477		mg/kg	0.0500	95.4	69.9-140			
LCS Dup (2061016-BSD1)				Prepared & Analy	yzed: 10-Jun-22				
Benzene	1.98	0.050	mg/kg	2.00	99.2	83.4-122	10.7	12.6	
Toluene	1.97	0.050	mg/kg	2.00	98.4	84.2-126	10.1	13.3	
Ethylbenzene	1.89	0.050	mg/kg	2.00	94.4	84.2-121	11.5	13.9	
m,p-Xylene	3.99	0.100	mg/kg	4.00	99.7	89.9-126	11.4	13.6	

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Celey D. Keens



%REC

Limits

RPD

Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240

Surrogate: 1-Chlorooctadecane

Analyte

Project: RED HILLS WEST 21 FED COM 2H

Source

Result

%REC

94.8

59.5-142

Project Number: 15507

Project Manager: LANCE CRENSHAW

Spike

Level

50.0

Fax To:

Reported: 23-Jun-22 14:08

RPD

Limit

Notes

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

47.4

Blank (2061011-BLK1)				Prepared & Ana	lyzed: 10-Jun-22				
GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	47.0		mg/kg	50.0	93.9	66.9-136			
Surrogate: 1-Chlorooctadecane	51.2		mg/kg	50.0	102	59.5-142			
LCS (2061011-BS1)				Prepared & Ana	lyzed: 10-Jun-22				
GRO C6-C10	180	10.0	mg/kg	200	90.1	78.5-128			
DRO >C10-C28	192	10.0	mg/kg	200	96.0	75.8-135			
Total TPH C6-C28	372	10.0	mg/kg	400	93.0	81.5-127			
Surrogate: 1-Chlorooctane	52.2		mg/kg	50.0	104	66.9-136			
Surrogate: 1-Chlorooctadecane	55.5		mg/kg	50.0	111	59.5-142			
LCS Dup (2061011-BSD1)				Prepared & Ana	lyzed: 10-Jun-22				
GRO C6-C10	184	10.0	mg/kg	200	92.2	78.5-128	2.37	21.4	
DRO >C10-C28	189	10.0	mg/kg	200	94.5	75.8-135	1.65	17.9	
Total TPH C6-C28	373	10.0	mg/kg	400	93.3	81.5-127	0.315	17.6	
Surrogate: 1-Chlorooctane	44.0		mg/kg	50.0	87.9	66.9-136			

mg/kg

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 10 of 11

Page 11 of 11

ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	: Etech Environmental & Safety Soluti	ons	, Inc							E	31L	L TO							ANA	LYS	SIS	RE	QUE	ST			
Project Manage	- Lance (venshow	V						P.0). #:												T						
Address: P.O							1	Cor	mpa	ıny:	Me	Mo	urne														
City: Lovingto	on State: NM	Zip	882	260				Attr	n:R	obbi	ie	RUKE	1.015						1								
Phone #: (575	5) 396-2378 Fax #: (575) 3	96-1	429					Add	dres	s: (160	Bus	west Pale	d													
Project #: 15	50> Project Owner	·M	leh	160	Ur	ne	2	City	v: 6	106	65				_												
Project Name:	Red Hills West 21 Fe	20	OH	17	H			Sta	te:/	NA	n z	ip:		9	TPH (8015M)		3TEX (8021B)										
Project Location	n: Rural Jul NM							Pho	one	#:				Chloride	80		8										
Sampler Name:							_	Fax	_					5	H		ĕ										
FOR LAB USE ONLY				-	MA	TRI)	(-	PRE	SEF	RV.	SAMP	LING	-	F		0		1								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME														
DCI	5W12					1					6	29		1	1	1											
1 2	5W/3					1					1	19	-	1	/	4				-	_				1		
3	EW12 EWHX	_	-	\vdash	+	1		\vdash		-	6	19	-	1	4	4		-	+-	+	+	_		-	+	-	+
4	EW13	H		-	+	1 k		\vdash		-	-	69	+	+	+	+	4		-	+	+			-	+	+	-
					+	+	1	\dashv			+		1	+	+	+			+	+	+			1	+	+	
1											1			F		+				1	1						
4.		\vdash			+	+	\vdash				+		1		+	+		_	+	+	+			+	+-	1	-
					+	T					1				1	+				1					+		
Relinguished B	Conditional to liabile for incidential or consequential distringes, including into out of or related to the performance of services hereunder by City: Date: OCH Time: U:U0	Re	d welve	ed unio alion, bu	whosh	in write domain	ing and done, is	recei	wed by	Cardi or loss	of profit	is incurred t	poid by the client of their completion of by client, its subside researce or other Phone R Fax Ress. REMARK	esult:	0	Yes Yes	П		Add	Pho Fax	#	el	- B	kn.	6	/23/	122
	Time: 1040																									0	9
	: (Circle One) 29.12) C - O.	-11		C	ample cool Ye	Inta	ct		(CKE	D BY:	Please	email	resu	ints 1	o pri	i@e	ieche	nv.co	om.						

FORM-006 Revision 1.0

Received by OCD: 9/2/2022 7:35:31 PM

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



June 17, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS 21 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 06/13/22 16:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is 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)

Celey D. Keine

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. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To:

 Received:
 06/13/2022
 Sampling Date:
 06/13/2022

 Reported:
 06/17/2022
 Sampling Type:
 Soil

Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)
Project Number: 15507 Sample Received By: Shalyn Rodriguez

A I J D. ... 711

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: WW 16 B (H222529-01)

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	06/14/2022	ND	2.02	101	2.00	0.465	
Toluene*	<0.050	0.050	06/14/2022	ND	2.03	102	2.00	1.23	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	1.94	96.8	2.00	1.76	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.02	100	6.00	2.40	
Total BTEX	<0.300	0.300	06/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/15/2022	ND	448	112	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	06/15/2022	ND	196	98.2	200	3.39	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	200	100	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					
Surrogate: 1-Chlorooctane	130 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	134 9	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 06/13/2022 Sampling Date: 06/13/2022

Reported: 06/17/2022 Sampling Type: Soil

Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes) Project Number: 15507 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: WW 17 B (H222529-02)

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	06/14/2022	ND	2.02	101	2.00	0.465	
Toluene*	<0.050	0.050	06/14/2022	ND	2.03	102	2.00	1.23	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	1.94	96.8	2.00	1.76	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.02	100	6.00	2.40	
Total BTEX	<0.300	0.300	06/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/15/2022	ND	448	112	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	06/14/2022	ND	196	98.2	200	3.39	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	200	100	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					
Surrogate: 1-Chlorooctane	101	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	102	% 59.5-14	2						

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Celey D. Keine



Shalyn Rodriguez

Analytical Results For:

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

Fax To:

Received: 06/13/2022 Sampling Date: 06/13/2022

Reported: 06/17/2022 Sampling Type: Soil Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)

Project Number: 15507 Sample Received By:

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: WW 18 B (H222529-03)

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	06/14/2022	ND	2.02	101	2.00	0.465	
Toluene*	<0.050	0.050	06/14/2022	ND	2.03	102	2.00	1.23	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	1.94	96.8	2.00	1.76	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.02	100	6.00	2.40	
Total BTEX	<0.300	0.300	06/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	06/15/2022	ND	448	112	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	06/14/2022	ND	196	98.2	200	3.39	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	200	100	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					
Surrogate: 1-Chlorooctane	78.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	81.1	% 59.5-14	2						

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Analytical Results For:

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

Fax To:

Received: 06/13/2022 Sampling Date: 06/13/2022

Reported: 06/17/2022 Sampling Type: Soil

Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)
Project Number: 15507 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: WW 19 B (H222529-04)

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	06/14/2022	ND	2.02	101	2.00	0.465	
Toluene*	<0.050	0.050	06/14/2022	ND	2.03	102	2.00	1.23	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	1.94	96.8	2.00	1.76	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.02	100	6.00	2.40	
Total BTEX	<0.300	0.300	06/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/15/2022	ND	448	112	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	06/14/2022	ND	196	98.2	200	3.39	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	200	100	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					
Surrogate: 1-Chlorooctane	92.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	97.5	% 59.5-14	2						

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Celeg D. Frene



Analytical Results For:

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

Fax To:

Received: 06/13/2022 Sampling Date: 06/13/2022

Reported: 06/17/2022 Sampling Type: Soil

Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)
Project Number: 15507 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: MEWBOURNE - RURAL JAL, NM

ma/ka

Sample ID: WW 20 B (H222529-05)

RTFY 8021R

BIEX 8021B	mg,	^и кд	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2022	ND	2.02	101	2.00	0.465	
Toluene*	<0.050	0.050	06/14/2022	ND	2.03	102	2.00	1.23	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	1.94	96.8	2.00	1.76	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.02	100	6.00	2.40	
Total BTEX	<0.300	0.300	06/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-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	06/15/2022	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	06/14/2022	ND	196	98.2	200	3.39	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	200	100	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					
Surrogate: 1-Chlorooctane	84.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	88.7	% 59.5-14	2						

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Analytical Results For:

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

Applyzod By: 14

Received: 06/13/2022 Reported: 06/17/2022 Sampling Date: 06/13/2022 Sampling Type: Soil

Project Name:

Sampling Condition: ** (See Notes)

RED HILLS 21 FED COM 2H Project Number: 15507

Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - RURAL JAL, NM

ma/ka

Sample ID: EW 15 A (H222529-06)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2022	ND	2.02	101	2.00	0.465	
Toluene*	<0.050	0.050	06/14/2022	ND	2.03	102	2.00	1.23	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	1.94	96.8	2.00	1.76	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.02	100	6.00	2.40	
Total BTEX	<0.300	0.300	06/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-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	06/15/2022	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	06/14/2022	ND	196	98.2	200	3.39	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	200	100	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					
Surrogate: 1-Chlorooctane	99.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	103	% 59.5-14	2						

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Celey D. Keine



Analytical Results For:

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

Fax To:

 Received:
 06/13/2022
 Sampling Date:
 06/13/2022

 Reported:
 06/17/2022
 Sampling Type:
 Soil

Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)
Project Number: 15507 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: EW 16 A (H222529-07)

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	06/14/2022	ND	2.02	101	2.00	0.465	
Toluene*	<0.050	0.050	06/14/2022	ND	2.03	102	2.00	1.23	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	1.94	96.8	2.00	1.76	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.02	100	6.00	2.40	
Total BTEX	<0.300	0.300	06/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500CI-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	06/15/2022	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	06/14/2022	ND	196	98.2	200	3.39	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	200	100	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					
Surrogate: 1-Chlorooctane	107	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	112	% 59.5-14	22						

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Celey D. Keine



Analytical Results For:

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

Fax To:

 Received:
 06/13/2022
 Sampling Date:
 06/13/2022

 Reported:
 06/17/2022
 Sampling Type:
 Soil

Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)
Project Number: 15507 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: EW 17 B (H222529-08)

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	06/14/2022	ND	2.02	101	2.00	0.465	
Toluene*	<0.050	0.050	06/14/2022	ND	2.03	102	2.00	1.23	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	1.94	96.8	2.00	1.76	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.02	100	6.00	2.40	
Total BTEX	<0.300	0.300	06/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/15/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2022	ND	196	98.2	200	3.39	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	200	100	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					
Surrogate: 1-Chlorooctane	110	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	114	% 59.5-14	2						

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Celey D. Keene



Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

Received: 06/13/2022 Sampling Date: 06/13/2022

Reported: 06/17/2022 Sampling Type: Soil
Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: EW 18 A (H222529-09)

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	06/14/2022	ND	2.02	101	2.00	0.465	
Toluene*	<0.050	0.050	06/14/2022	ND	2.03	102	2.00	1.23	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	1.94	96.8	2.00	1.76	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.02	100	6.00	2.40	
Total BTEX	<0.300	0.300	06/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/15/2022	ND	432	108	400	3.64	
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	06/14/2022	ND	196	98.2	200	3.39	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	200	100	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					
Surrogate: 1-Chlorooctane	117	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	121	% 59.5-14	2						

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Celey D. Keine



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

Page 12 of 12

RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	: Etech Environmenta	al & Safety Solution	ons	, Inc	la Fa						B	IL	L TO								ANA	LYS	IS	REQI	UES	T		
Project Manage	r. Lance Cr	enshaw							P.O.	#:								T										
Address: P.O	. Box 301								Con	pai	ny: [/	40	Whoy	rne														
City: Lovingto	on	State: NM	Zip	882	260				Attn	:Re	66	e	KUNH	015														
Phone #: (57	5) 396-2378	Fax #: (575) 39	6-1	429					Add	ress	s:48	301	1B05 4	Bark		1												
Project #:		Project Owner:									fob					1		ı						1				
Project Name:	Red Hills'	21 Fed Cox	n	7	H						IM	-					S.		18									
Project Location	n: Rural T	Ja N N	1	,					Pho							Chloride	TPH (8015M)		BTEX (8021B)									
Sampler Name:	Dominic	(25g.c)	1					-	Fax							Ë	I		EX									
FOR LAB USE ONLY						M/	TRIX		P	RES	SERI	4	SAMPL	ING			F		B									
Lab I.D.	Sample I.I	D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:		DATE		ME													
DCI	DWW 16 B					1						4	1113	44	0	1	1		1									
12	WW 17 B					1						L	1	-														
3	WW 18 B			Ц		1						L					1											
14	WV12 B			Ш		1			1	1		1	1			1	1	1			-	_	1		_			
5	YNZOB			Н		1	-		1	-	-	L	-	1		1		Щ			-	-	+	-	-			
19	EW 15 A			Н			-		4	+	1	1	-	1		-	4	11			-	+	+	-	-			 -
12	EW 16 A			Н					+	+	-	╀	1	\vdash		1	H	\mathbb{H}	_		-	-	+	-	-	_		 -
10	EW 17 B			Н	-	-	-		+	+	+	╀	V	1/		4	1	0	4	_	-	+	+	+	+			-
7 9	EV 18 A		-	Н	+	+	-		+	+	+	╀		4,	_		-	+		-	-	+	+	+	+	_	_	-
enelyses. All cleims include service. In no event shall Conflictes or successors arise Relinquished By Relinquished By Relinquished By	A	nuce whatsoover shall be de ucertal damages, including of f senices hereunder by Ca Date; //3 Time:	rdinal Re	t ilmite regen	d union ton ton the description of the description	made iness ir whethe	in wellir derrupi	ng and r lone, lo	receive se of us	d by C m, or i	cerdinal loss of	with	vin 30 days after its incurred by o	Phori Fax F	ion of the submidler otherwise Result ARKS	o applica ios, io. suit: t:	DY	05		No No	Add	I Phon I Fax i						
	- Bus - Other:	28.9c#1	1/3	3	C	ool Ye	Inta	rditio Yes No	n	5	HEC _(Ini		D BY: (s)															

FORM-006 Revision 1.0

Received by OCD: 9/2/2022 7:35:31 PM

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



June 21, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS 21 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 06/16/22 16:21.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Applyand By 14

Received: 06/16/2022 Reported: 06/21/2022

Project Name: RED HILLS 21 FED COM 2H

Project Number: 15507

Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 06/16/2022

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: OSS @ SUR (H222584-01)

DTEV 0021D

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	06/17/2022	ND	2.03	102	2.00	2.58	
Toluene*	<0.050	0.050	06/17/2022	ND	2.04	102	2.00	3.01	
Ethylbenzene*	<0.050	0.050	06/17/2022	ND	1.92	95.9	2.00	2.71	
Total Xylenes*	<0.150	0.150	06/17/2022	ND	5.96	99.3	6.00	2.77	
Total BTEX	<0.300	0.300	06/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	06/17/2022	ND	448	112	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	06/17/2022	ND	195	97.4	200	1.54	
DRO >C10-C28*	<10.0	10.0	06/17/2022	ND	201	100	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	06/17/2022	ND					
Surrogate: 1-Chlorooctane	98.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	108	% 59.5-14	2						

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Analytical Results For:

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

Fax To:

 Received:
 06/16/2022
 Sampling Date:
 06/16/2022

 Reported:
 06/21/2022
 Sampling Type:
 Soil

Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)
Project Number: 15507 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: OSS @ 1 (H222584-02)

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	06/17/2022	ND	2.03	102	2.00	2.58	
Toluene*	<0.050	0.050	06/17/2022	ND	2.04	102	2.00	3.01	
Ethylbenzene*	<0.050	0.050	06/17/2022	ND	1.92	95.9	2.00	2.71	
Total Xylenes*	<0.150	0.150	06/17/2022	06/17/2022 ND		99.3	6.00	2.77	
Total BTEX	<0.300	0.300	06/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/17/2022	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/17/2022	ND	195	97.4	200	1.54	
DRO >C10-C28*	<10.0	10.0	06/17/2022	ND	201	100	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	06/17/2022	ND					
Surrogate: 1-Chlorooctane	91.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	100	% 59.5-14	2						

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Analytical Results For:

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

06/16/2022

Reported: 06/21/2022

Project Name: RED HILLS 21 FED COM 2H

Project Number: 15507

Project Location: MEWBOURNE - RURAL JAL, NM Sampling Date: 06/16/2022

Sampling Type: Soil

Sampling Condition: ** (See Notes)

Sample Received By: Tamara Oldaker

Sample ID: WW21 (H222584-03)

Received:

BTEX 8021B	mg,	/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2022	ND	2.03	102	2.00	2.58	
Toluene*	<0.050	0.050	06/17/2022	ND	2.04	102	2.00	3.01	
Ethylbenzene*	<0.050	0.050	06/17/2022	6/17/2022 ND 1.92 95.9		2.00	2.71		
Total Xylenes*	<0.150	0.150	06/17/2022	ND	5.96	99.3	6.00	2.77	
Total BTEX	<0.300	0.300	06/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 69.9-14	0						
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	06/17/2022	ND	448	112	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	06/17/2022	ND	195	97.4	200	1.54	
DRO >C10-C28*	<10.0	10.0	06/17/2022	ND	201	100	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	06/17/2022	ND					
Surrogate: 1-Chlorooctane	107	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	118 9	% 59.5-14	2						

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Analytical Results For:

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

Received: 06/16/2022 Reported:

Sampling Type: 06/21/2022

Project Name: RED HILLS 21 FED COM 2H Project Number: 15507

Project Location: MEWBOURNE - RURAL JAL, NM Sampling Date: 06/16/2022 Soil Sampling Condition: ** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: EW 20 A (H222584-04)

BTEX 8021B	mg/	kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2022	ND	2.03	102	2.00	2.58	
Toluene*	<0.050	0.050	06/17/2022	ND	2.04	102	2.00	3.01	
Ethylbenzene*	<0.050	0.050	06/17/2022 ND		1.92	95.9	2.00	2.71	
Total Xylenes*	<0.150	0.150	06/17/2022	ND	5.96	99.3	6.00	2.77	
Total BTEX	<0.300	0.300	06/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	rrogate: 4-Bromofluorobenzene (PID 100 % 69.9-1		0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/17/2022	ND	448	112	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	06/17/2022	ND	195	97.4	200	1.54	
DRO >C10-C28*	<10.0	10.0	06/17/2022	ND	201	100	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	06/17/2022	ND					
Surrogate: 1-Chlorooctane	108 9	66.9-13	6						
Surrogate: 1-Chlorooctadecane	119 9	6 59.5-14	2						

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Analytical Results For:

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

Received: 06/16/2022 Reported:

Sampling Type: 06/21/2022 RED HILLS 21 FED COM 2H

Project Number: 15507

Project Location: MEWBOURNE - RURAL JAL, NM Sampling Date: 06/16/2022

Soil

Sampling Condition: ** (See Notes) Sample Received By: Tamara Oldaker

Sample ID: NW 7 (H222584-05)

Project Name:

BTEX 8021B	mg,	/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2022	ND	2.03	102	2.00	2.58	
Toluene*	<0.050	0.050	06/17/2022	ND	2.04	102	2.00	3.01	
Ethylbenzene*	<0.050	0.050	06/17/2022	ND	1.92	95.9	2.00	2.71	
Total Xylenes*	<0.150	0.150	06/17/2022	ND	5.96	99.3	6.00	2.77	
Total BTEX	<0.300	0.300	06/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 69.9-14	0						
Chloride, SM4500CI-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	06/17/2022	ND	448	112	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	06/17/2022	ND	195	97.4	200	1.54	
DRO >C10-C28*	<10.0	10.0	06/17/2022	ND	201	100	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	06/17/2022	ND					
Surrogate: 1-Chlorooctane	103	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	114 9	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

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

Received: 06/16/2022 Reported: 06/21/2022 Sampling Date: 06/16/2022 Sampling Type: Soil

Project Name:

RED HILLS 21 FED COM 2H

Sampling Condition: ** (See Notes)

Project Number: 15507 Sample Received By:

Tamara Oldaker

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: WW 22 B (H222584-06)

BTEX 8021B	kg	Analyze	d By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2022	ND	2.20	110	2.00	3.98	
Toluene*	<0.050	0.050	06/17/2022	ND	2.19	109	2.00	3.94	
Ethylbenzene*	<0.050	0.050	06/17/2022	ND	2.12	106	2.00	3.81	
Total Xylenes*	<0.150	0.150	06/17/2022	ND	6.57	109	6.00	3.50	
Total BTEX	<0.300	0.300	06/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2 %	69.9-14	0						
Chloride, SM4500CI-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	06/17/2022	ND	448	112	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	06/17/2022	ND	203	101	200	1.85	
DRO >C10-C28*	<10.0	10.0	06/17/2022	ND	208	104	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	06/17/2022	ND					
Surrogate: 1-Chlorooctane	105 %	66.9-13	6						
Surrogate: 1-Chlorooctadecane	115 %	6 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 06/16/2022 Reported: 06/21/2022

06/21/2022 Sampling Type: RED HILLS 21 FED COM 2H Sampling Condition:

Project Name: RED HI
Project Number: 15507

Project Location: MEWBOURNE - RURAL JAL, NM

Sampling Date: 06/16/2022

Sample Received By:

** (See Notes)

Tamara Oldaker

Soil

Sample ID: EW 19 A (H222584-07)

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	06/17/2022	ND	2.20	110	2.00	3.98	
Toluene*	<0.050	0.050	06/17/2022	ND	2.19	109	2.00	3.94	
Ethylbenzene*	<0.050	0.050	06/17/2022	7/2022 ND 2.12 10		106	2.00	3.81	
Total Xylenes*	<0.150	0.150	06/17/2022 ND		6.57	109	6.00	3.50	
Total BTEX	<0.300	0.300	06/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 69.9-14	0						
Chloride, SM4500CI-B	loride, SM4500Cl-B mg/kg			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/17/2022	ND	448	112	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	06/17/2022	ND	203	101	200	1.85	
DRO >C10-C28*	<10.0	10.0	06/17/2022	ND	208	104	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	06/17/2022	ND					
Surrogate: 1-Chlorooctane	100	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	109	% 59.5-14	2						

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Celey D. Keine



Analytical Results For:

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

Fax To:

 Received:
 06/16/2022
 Sampling Date:
 06/16/2022

 Reported:
 06/21/2022
 Sampling Type:
 Soil

Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)
Project Number: 15507 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: EW 21 (H222584-08)

Benzene* <0.050 0.050 06/17/2022 ND 2.2	% Recover .20 110 .19 109	y True Value QC 2.00 2.00	RPD 3.98	Qualifier
·			3.98	
Toluene* <0.050 0.050 06/17/2022 ND 2.1	.19 109	2.00		
10.000 0.000 00/17/2022 ND 2.13		2.00	3.94	
Ethylbenzene* <0.050 0.050 06/17/2022 ND 2.3	.12 106	2.00	3.81	
Total Xylenes* <0.150 0.150 06/17/2022 ND 6.5	.57 109	6.00	3.50	
Total BTEX <0.300 0.300 06/17/2022 ND				
Surrogate: 4-Bromofluorobenzene (PID 97.3 % 69.9-140				
Chloride, SM4500Cl-B mg/kg Analyzed By: AC				
Analyte Result Reporting Limit Analyzed Method Blank B	3S % Recover	y True Value QC	RPD	Qualifier
Chloride 80.0 16.0 06/17/2022 ND 44	48 112	400	0.00	
TPH 8015M mg/kg Analyzed By: MS				
Analyte Result Reporting Limit Analyzed Method Blank B	3S % Recover	y True Value QC	RPD	Qualifier
GRO C6-C10* <10.0 10.0 06/17/2022 ND 20	03 101	200	1.85	
DRO >C10-C28* <10.0 10.0 06/17/2022 ND 20	08 104	200	1.04	
EXT DRO >C28-C36 <10.0 10.0 06/17/2022 ND				
Surrogate: 1-Chlorooctane 101 % 66.9-136				
Surrogate: 1-Chlorooctadecane 111 % 59.5-142				

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 11 of 11

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	e: Etech Environmental & Safety Solut		Inc.							B	IL	LTO					ANALYSIS REQUEST	
Project Manage	er: Lance Crentha	h~						P.0	D. #:									
Address: P.C	O. Box 301							Co	mpa	ny:	ne	Wboork	10					
City: Lovingt	on State: NM	Zip:	882	60								e Ru						
Phone #: (57	75) 396-2378 Fax #: (575) 3	96-14	129					Ad	dres	s:4	86	1 845 1	ercond					
Project #: /	5507 Project Owner	: M	-1.//	m	150	2	-			100			10					
Project Name:	Red Hills 21 fed	C	200) '	2.H	!				NA					Σ	STEX (8021B)		
Project Locatio				-					one			ap.		Chloride	IPH (8015M)	802		
Sampler Name:		7					-	-	x#:					을	89	×		
FOR LAB USE ONLY	JAMINIC CESCUL				MA	TRI	(_	_	SER	v.	SAMPLI	NG	0	F	1 2		
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP.	CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	I HEK:	DATE	TIME					
H222584	055@ 500	۳	*	9	5 4	1	S	0	4	2 0		6/16	1100		1	1		
1 7	055@1	Н		1	+	+				+	+	1		1	1	+		
2	WWZI	Н		-	+	+	+			+	+				1	11		
1 11	EW 20 A	Н		1	+	+	1			+	+			\vdash	11	11		
1 7	NWZ			1		\Box	T				+			1	H	1		
1	1/6/228	П				1				1	1				11	1		
15	C.W 19 #	\Box				1					t			\vdash	11	11		
VV	EVZI	П			1	+				1	t	1		4	1	4		
0					1		1				t							
			П								+							
analyses. All claims includes	and Demages, Cardinal's liability and client's exclusive remedy for a sing those for negligence and any other cause whatsoever shell be Cardinal be liable for incidental or consequented damages, includinging out of or related to the performance of services hereunder by Cardinal Sy: Date: Date: Date: Date:	deemed without ardinal,	water	d union ion, bu less of ed E	whath	in unit	ing en dons,	d ruce lous o	ived by Tuse, o	Cardin r loss o	al will I prof	hin 30 days after Sin incurred by d	completion of the	to application, too. Sult:	□ Ye		No Add'I Phone #: No Add'I Fax #:	

Delivered By: (Circle One) Sampler - UPS - Bus - Other: Time:

33.5 c

CHECKED BY:

(Initials)

Sample Condition

Yes Yes

Cool Intact

Please email results to pm@etechenv.com.

Received by OCD: 9/2/2022 7:35:31 PM

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



June 23, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS 21 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 06/20/22 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

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

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)

Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project Number: 15507

Project Manager: LANCE CRENSHAW

Project: RED HILLS 21 FED COM 2H

Fax To:

Reported: 23-Jun-22 16:26

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WW 18 C	H222629-01	Soil	20-Jun-22 16:15	20-Jun-22 16:15

06/23/22 - Client changed the sample ID (See COC). This is the revised report and will replace the one sent earlier 06/23/22.

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 16:26

WW 18 C H222629-01 (Soil)

	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes		
	Cardinal Laboratories												
]	Inorganic Compounds												
(Chloride	48.0		16.0	mg/kg	4	2062128	GM	21-Jun-22	4500-Cl-B			

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: RED HILLS 21 FED COM 2H

Project Number: 15507

Project Manager: LANCE CRENSHAW

Fax To:

Reported: 23-Jun-22 16:26

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2062128 - 1:4 DI Water										
Blank (2062128-BLK1)				Prepared &	Analyzed:	21-Jun-22				
Chloride	ND	16.0	mg/kg							
LCS (2062128-BS1)				Prepared &	Analyzed:	21-Jun-22				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (2062128-BSD1)				Prepared &	z Analyzed:	21-Jun-22				
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 6

Page 6 of 6

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.	BILL TO	ANALYSIS REQUEST			
Project Manager: Laure Crenshaw	P.O. #: MEWBOURE O. (
Address: P.O. Box 301	Company: Mell Marie				
City: Lovington State: NM Zip: 88260	Attn: Robbie Rymol5 Address: 490 Bus RK Blvd				
Phone #: (575) 396-2378 Fax #: (575) 396-1429	Address: 490 Bus RK Blvd				
Project #: 15507 Project Owner:	City: Ablanc				
Project Name: Red Hills 21 Fed Con 24	State: M Zip: 7				
Project Location: Ruca (DC	State: M/ Zip: / Phone #: Fax #: X PRESERV SAMPLING				
Sampler Name: Pominit Cosurer	Fax #: 5 # X				
FOR LAB USE ONLY MAT	X PRESERV. SAMPLING				
GGRAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL	ACID/BASE: OTHER: OTHER: OTHER:				
DC 1 WW 18 B C *	6214151				
PLEASE NOTE: Liability and Damagos, Cardinal's liability and client's exclusive remedy for any claim arising whether besset	contract or tort, shall be limited to the amount paid by the client for the				
analyses. All cleams including those for negligence and any other cause whatecover shall be deemed valued unious made it source. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business in	thing and received by Cardinal within 30 days after completion of the applicable oftens, have of use, or loss of profile incurred by client, he subsidiaries,				
Relinquished By: Relinquished By: Date: Time: Received By: Received By:	Phone Result: Yes I	no Add'I Phone #: No Add'I Phone #: Changed as pur Ben. 6/23/22			
Time:					
Delivered By: (Circle One) 29 26 C 0 Sample	Please email results to p	m@etechenv.com.			

FORM-006 Revision 1.0

Received by OCD: 9/2/2022 7:35:31 PM

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

(Initials)



August 16, 2022

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

RE: RED HILLS 21 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 08/10/22 17:00.

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

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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



08/10/2022

Soil

Analytical Results For:

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

Received: 08/10/2022 Reported: 08/16/2022

08/10/2022 Sampling Date: 08/16/2022 Sampling Type:

Project Name: RED HILL Project Number: 15507

RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)
15507 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 2 @ 10' (H223622-01)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2022	ND	1.77	88.7	2.00	0.864	
Toluene*	<0.050	0.050	08/13/2022	ND	1.88	93.8	2.00	1.35	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.80	89.8	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	5.50	91.7	6.00	3.26	
Total BTEX	<0.300	0.300	08/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	08/16/2022	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	08/13/2022	ND	189	94.4	200	3.24	
DRO >C10-C28*	<10.0	10.0	08/13/2022	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	08/13/2022	ND					
Surrogate: 1-Chlorooctane	80.5	% 43-149	1						
Surrogate: 1-Chlorooctadecane	95.0	% 42.5-16	1						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

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

Received: 08/10/2022 Reported: 08/16/2022 Sampling Date: 08/10/2022

Project Name: RED HILLS 21 FED COM 2H

Sampling Type: Soil

Project Number: 15507

Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 2 @ 11' (H223622-02)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2022	ND	1.77	88.7	2.00	0.864	
Toluene*	<0.050	0.050	08/13/2022	ND	1.88	93.8	2.00	1.35	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.80	89.8	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	5.50	91.7	6.00	3.26	
Total BTEX	<0.300	0.300	08/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	08/16/2022	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	08/13/2022	ND	189	94.4	200	3.24	
DRO >C10-C28*	<10.0	10.0	08/13/2022	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	08/13/2022	ND					
Surrogate: 1-Chlorooctane	89.1	% 43-149)						
Surrogate: 1-Chlorooctadecane	105	% 42.5-16	1						

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Celey D. Keene



Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

Received: 08/10/2022 Sampling Date: 08/10/2022

Reported: 08/16/2022 Sampling Type: Soil
Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 2 @ 12' (H223622-03)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2022	ND	1.77	88.7	2.00	0.864	
Toluene*	<0.050	0.050	08/13/2022	ND	1.88	93.8	2.00	1.35	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.80	89.8	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	5.50	91.7	6.00	3.26	
Total BTEX	<0.300	0.300	08/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-140	9						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	08/16/2022	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	08/13/2022	ND	189	94.4	200	3.24	
DRO >C10-C28*	<10.0	10.0	08/13/2022	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	08/13/2022	ND					
Surrogate: 1-Chlorooctane	85.4	% 43-149							
Surrogate: 1-Chlorooctadecane	101	% 42.5-16.	I						

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Analytical Results For:

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

Fax To:

Received: 08/10/2022 Sampling Date: 08/10/2022

Reported: 08/16/2022 Sampling Type: Soil

Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)
Project Number: 15507 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 2 @ 13' (H223622-04)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2022	ND	1.77	88.7	2.00	0.864	
Toluene*	<0.050	0.050	08/13/2022	ND	1.88	93.8	2.00	1.35	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.80	89.8	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	5.50	91.7	6.00	3.26	
Total BTEX	<0.300	0.300	08/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	08/16/2022	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	08/13/2022	ND	189	94.4	200	3.24	
DRO >C10-C28*	73.2	10.0	08/13/2022	ND	209	105	200	1.90	
EXT DRO >C28-C36	64.0	10.0	08/13/2022	ND					
Surrogate: 1-Chlorooctane	86.1	% 43-149)						
Surrogate: 1-Chlorooctadecane	103	% 42.5-16	1						

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Analytical Results For:

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

Fax To:

Received: 08/10/2022 Sampling Date: 08/10/2022

Reported: 08/16/2022 Sampling Type: Soil

Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)
Project Number: 15507 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 3 @ 4' (H223622-05)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2022	ND	1.89	94.6	2.00	0.383	
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792	
Total BTEX	<0.300	0.300	08/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	08/16/2022	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	08/11/2022	ND	189	94.5	200	10.7	
DRO >C10-C28*	<10.0	10.0	08/11/2022	ND	199	99.4	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	08/11/2022	ND					
Surrogate: 1-Chlorooctane	86.4	% 43-149)						
Surrogate: 1-Chlorooctadecane	86.5	% 42.5-16	1						

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Analytical Results For:

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

Fax To:

Received: 08/10/2022 Sampling Date: 08/10/2022

Reported: 08/16/2022 Sampling Type: Soil

Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)
Project Number: 15507 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 3 @ 5' (H223622-06)

RTFY 8021R

BIEX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2022	ND	1.89	94.6	2.00	0.383	
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792	
Total BTEX	<0.300	0.300	08/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	08/16/2022	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	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					
Surrogate: 1-Chlorooctane	91.6	% 43-149							
Surrogate: 1-Chlorooctadecane	98.4	% 42.5-16	1						

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Shalyn Rodriguez

Analytical Results For:

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

Fax To:

 Received:
 08/10/2022
 Sampling Date:
 08/10/2022

 Reported:
 08/16/2022
 Sampling Type:
 Soil

Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)

Project Number: 15507 Sample Received By: Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 4 @ 4' (H223622-07)

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	08/13/2022	ND	1.89	94.6	2.00	0.383	
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792	
Total BTEX	<0.300	0.300	08/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	08/16/2022	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	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					
Surrogate: 1-Chlorooctane	91.5	% 43-149)						
Surrogate: 1-Chlorooctadecane	95.6	% 42.5-16	1						

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Analytical Results For:

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

Fax To:

Received: 08/10/2022 Sampling Date: 08/10/2022

Reported: 08/16/2022 Sampling Type: Soil

Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)
Project Number: 15507 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 4 @ 5' (H223622-08)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2022	ND	1.89	94.6	2.00	0.383	
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792	
Total BTEX	<0.300	0.300	08/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/16/2022	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	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					
Surrogate: 1-Chlorooctane	95.4	% 43-149	1						
Surrogate: 1-Chlorooctadecane	99.8	% 42.5-16	1						

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Analytical Results For:

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

Fax To:

Received: 08/10/2022 Sampling Date: 08/10/2022

Reported: 08/16/2022 Sampling Type: Soil

Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)
Project Number: 15507 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 4 @ 6' (H223622-09)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2022	ND	1.89	94.6	2.00	0.383	
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792	
Total BTEX	<0.300	0.300	08/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/16/2022	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	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					
Surrogate: 1-Chlorooctane	92.0	% 43-149	1						
Surrogate: 1-Chlorooctadecane	100	% 42.5-16	1						

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Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

Received: 08/10/2022 Sampling Date: 08/10/2022

Reported: 08/16/2022 Sampling Type: Soil Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 4 @ 7' (H223622-10)

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	08/13/2022	ND	1.89	94.6	2.00	0.383	
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792	
Total BTEX	<0.300	0.300	08/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/16/2022	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	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					
Surrogate: 1-Chlorooctane	90.5	% 43-149	1						
Surrogate: 1-Chlorooctadecane	97.8	% 42.5-16	1						

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Analytical Results For:

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

Fax To:

Received: 08/10/2022 Sampling Date: 08/10/2022

Reported: 08/16/2022 Sampling Type: Soil

Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)
Project Number: 15507 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 1 @ 4' (H223622-11)

BTEX 8021B

	9,	9	7	7 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2022	ND	1.89	94.6	2.00	0.383	
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792	
Total BTEX	<0.300	0.300	08/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5080	16.0	08/16/2022	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	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					
Surrogate: 1-Chlorooctane	88.6	% 43-149	1						
Surrogate: 1-Chlorooctadecane	95.7	% 42.5-16	1						

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Celey D. Keene



Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

Received: 08/10/2022 Sampling Date: 08/10/2022

Reported: 08/16/2022 Sampling Type: Soil Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 1 @ 5' (H223622-12)

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	08/13/2022	ND	1.89	94.6	2.00	0.383	
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792	
Total BTEX	<0.300	0.300	08/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	08/16/2022	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	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					
Surrogate: 1-Chlorooctane	87.0 9	% 43-149)						
Surrogate: 1-Chlorooctadecane	92.5 9	% 42.5-16	1						

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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:

Analyzed By: JH

Received: 08/10/2022 Reported:

Sampling Date: Sampling Type: Soil

08/10/2022

Project Name:

BTEX 8021B

08/16/2022 RED HILLS 21 FED COM 2H

Sampling Condition:

Sample Received By:

** (See Notes) Shalyn Rodriguez

Project Number: Project Location: 15507

MEWBOURNE - RURAL JAL, NM

Sample ID: SP 1 @ 6' (H223622-13)

DILX GOZID	iiig/	ng .	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2022	ND	1.89	94.6	2.00	0.383	
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792	
Total BTEX	<0.300	0.300	08/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1870	16.0	08/16/2022	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	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					
Surrogate: 1-Chlorooctane	93.8	% 43-149	1						
Surrogate: 1-Chlorooctadecane	101	% 42.5-16	1						

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Celeg D. Keine



Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

Received: 08/10/2022 Sampling Date: 08/10/2022

Reported: 08/16/2022 Sampling Type: Soil
Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 1 @ 7' (H223622-14)

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	08/13/2022	ND	1.89	94.6	2.00	0.383	
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792	
Total BTEX	<0.300	0.300	08/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	08/16/2022	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	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					
Surrogate: 1-Chlorooctane	94.2	% 43-149)						
Surrogate: 1-Chlorooctadecane	101	% 42.5-16	1						

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Celey D. Kreine



Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

 Received:
 08/10/2022
 Sampling Date:
 08/10/2022

 Reported:
 08/16/2022
 Sampling Type:
 Soil

Reported: 08/16/2022 Sampling Type: Soil
Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 2 @ 4' (H223622-15)

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	08/13/2022	ND	1.89	94.6	2.00	0.383	
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792	
Total BTEX	<0.300	0.300	08/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	08/16/2022	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	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					
Surrogate: 1-Chlorooctane	93.5	% 43-149)						
Surrogate: 1-Chlorooctadecane	100	% 42.5-16	1						

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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: 08/10/2022 Sampling Date: 08/10/2022

Reported: 08/16/2022 Sampling Type: Soil
Project Name: RED HILLS 21 FED COM 2H Sampling Condition: **(

Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)
Project Number: 15507 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 2 @ 5' (H223622-16)

RTFY 8021R

Result <0.050	Reporting Limit 0.050	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050							• • • • • • • • • • • • • • • • • • • •
	0.030	08/13/2022	ND	1.89	94.6	2.00	0.383	
<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647	
<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03	
<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792	
<0.300	0.300	08/13/2022	ND					
115 %	69.9-14	0						
mg/	kg	Analyze	d By: GM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1710	16.0	08/16/2022	ND	432	108	400	0.00	
mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	08/12/2022	ND	185	92.4	200	11.8	
<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
<10.0	10.0	08/12/2022	ND					
84.7 9	% 43-149							
	1710 mg/ Result <10.0 <10.0 <10.0	1710 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0	1710 16.0 08/16/2022 mg/kg Analyze Result Reporting Limit Analyzed <10.0	1710 16.0 08/16/2022 ND mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0	1710 16.0 08/16/2022 ND 432 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0	1710 16.0 08/16/2022 ND 432 108 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	1710 16.0 08/16/2022 ND 432 108 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	1710 16.0 08/16/2022 ND 432 108 400 0.00 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

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Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

Received: 08/10/2022 Sampling Date: 08/10/2022

Reported: 08/16/2022 Sampling Type: Soil
Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 2 @ 6' (H223622-17)

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	08/13/2022	ND	1.89	94.6	2.00	0.383	
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792	
Total BTEX	<0.300	0.300	08/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1710	16.0	08/16/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					
Surrogate: 1-Chlorooctane	89.4	% 43-149)						
Surrogate: 1-Chlorooctadecane	95.2	% 42.5-16	1						

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Celey D. Keine



Analytical Results For:

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

Received: 08/10/2022 Reported: 08/16/2022 Sampling Date: 08/10/2022 Soil

Project Name: RED HILLS 21 FED COM 2H Sampling Type: Sampling Condition: ** (See Notes)

Project Number: 15507 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 2 @ 7' (H223622-18)

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	08/13/2022	ND	1.89	94.6	2.00	0.383	
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792	
Total BTEX	<0.300	0.300	08/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2210	16.0	08/16/2022	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	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					
Surrogate: 1-Chlorooctane	86.79	% 43-149	1						
Surrogate: 1-Chlorooctadecane	92.7	% 42.5-16	1						

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Celey D. Keine



Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

Received: 08/10/2022 Sampling Date: 08/10/2022

Reported: 08/16/2022 Sampling Type: Soil Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 2 @ 8' (H223622-19)

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	08/13/2022	ND	1.89	94.6	2.00	0.383	
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792	
Total BTEX	<0.300	0.300	08/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	08/16/2022	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	08/15/2022	ND	213	106	200	2.49	
DRO >C10-C28*	<10.0	10.0	08/15/2022	ND	240	120	200	9.69	
EXT DRO >C28-C36	<10.0	10.0	08/15/2022	ND					
Surrogate: 1-Chlorooctane	83.1	% 43-149							
Surrogate: 1-Chlorooctadecane	84.7	% 42.5-16	1						

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 08/10/2022 Sampling Date: 08/10/2022

Reported: 08/16/2022 Sampling Type: Soil

Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)
Project Number: 15507 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 2 @ 9' (H223622-20)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2022	ND	1.89	94.6	2.00	0.383	
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792	
Total BTEX	<0.300	0.300	08/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 69.9-140	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6240	16.0	08/16/2022	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	08/15/2022	ND	213	106	200	2.49	
DRO >C10-C28*	<10.0	10.0	08/15/2022	ND	240	120	200	9.69	
EXT DRO >C28-C36	<10.0	10.0	08/15/2022	ND					
Surrogate: 1-Chlorooctane	76.5	% 43-149							
Surrogate: 1-Chlorooctadecane	77.3	% 42.5-16.	1						

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Analytical Results For:

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

Applyzod By: 14

Fax To:

 Received:
 08/10/2022
 Sampling Date:
 08/10/2022

 Reported:
 08/16/2022
 Sampling Type:
 Soil

Reported: 08/16/2022 Sampling Type: Soil
Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)

Project Number: 15507 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 7 @ 4' (H223622-21)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2022	ND	1.89	94.6	2.00	0.383	
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792	
Total BTEX	<0.300	0.300	08/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	08/16/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2022	ND	213	106	200	2.49	
DRO >C10-C28*	<10.0	10.0	08/15/2022	ND	240	120	200	9.69	
EXT DRO >C28-C36	<10.0	10.0	08/15/2022	ND					
Surrogate: 1-Chlorooctane	80.2	% 43-149							
Surrogate: 1-Chlorooctadecane	82.3	% 42.5-16	1						

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Analytical Results For:

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

Fax To:

Received: 08/10/2022 Sampling Date: 08/10/2022

Reported: 08/16/2022 Sampling Type: Soil

Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)
Project Number: 15507 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 7 @ 5' (H223622-22)

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	08/13/2022	ND	1.89	94.6	2.00	0.383	
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792	
Total BTEX	<0.300	0.300	08/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6720	16.0	08/16/2022	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	08/15/2022	ND	213	106	200	2.49	
DRO >C10-C28*	<10.0	10.0	08/15/2022	ND	240	120	200	9.69	
EXT DRO >C28-C36	<10.0	10.0	08/15/2022	ND					
Surrogate: 1-Chlorooctane	90.9	% 43-149)						
Surrogate: 1-Chlorooctadecane	92.4	% 42.5-16	1						

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Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

Received: 08/10/2022 Sampling Date: 08/10/2022

Reported: 08/16/2022 Sampling Type: Soil Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 8 @ 4' (H223622-23)

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	08/13/2022	ND	1.89	94.6	2.00	0.383	
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792	
Total BTEX	<0.300	0.300	08/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/kg Result Re	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	08/16/2022	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	08/15/2022	ND	213	106	200	2.49	
DRO >C10-C28*	<10.0	10.0	08/15/2022	ND	240	120	200	9.69	
EXT DRO >C28-C36	<10.0	10.0	08/15/2022	ND					
Surrogate: 1-Chlorooctane	87.3	% 43-149							
Surrogate: 1-Chlorooctadecane	89.6	% 42.5-16	1						

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Shalyn Rodriguez

Analytical Results For:

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

Fax To:

Received: 08/10/2022 Sampling Date: 08/10/2022

Reported: 08/16/2022 Sampling Type: Soil Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)

Project Number: 15507 Sample Received By:

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 8 @ 5' (H223622-24)

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	08/13/2022	ND	1.89	94.6	2.00	0.383	
Toluene*	<0.050	0.050	08/13/2022	ND	1.95	97.3	2.00	0.647	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.96	98.2	2.00	1.03	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.05	101	6.00	0.792	
Total BTEX	<0.300	0.300	08/13/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	08/16/2022	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	08/15/2022	ND	213	106	200	2.49	
DRO >C10-C28*	<10.0	10.0	08/15/2022	ND	240	120	200	9.69	
EXT DRO >C28-C36	<10.0	10.0	08/15/2022	ND					
Surrogate: 1-Chlorooctane	83.7	% 43-149	1						
Surrogate: 1-Chlorooctadecane	84.8	% 42.5-16	1						

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Analytical Results For:

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

Received: 08/10/2022

Sampling Date: 08/10/2022

Reported: 08/16/2022 RED HILLS 21 FED COM 2H Sampling Type: Soil

Project Name: Project Number: 15507 Sampling Condition: ** (See Notes) Shalyn Rodriguez Sample Received By:

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 8 @ 6' (H223622-25)

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	08/15/2022	ND	2.03	101	2.00	0.364	
Toluene*	<0.050	0.050	08/15/2022	ND	1.96	98.1	2.00	0.122	
Ethylbenzene*	<0.050	0.050	08/15/2022	ND	1.93	96.7	2.00	0.831	
Total Xylenes*	<0.150	0.150	08/15/2022	ND	6.00	100	6.00	1.75	
Total BTEX	<0.300	0.300	08/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	08/16/2022	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	08/13/2022	ND	214	107	200	1.67	
DRO >C10-C28*	<10.0	10.0	08/13/2022	ND	208	104	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	08/13/2022	ND					
Surrogate: 1-Chlorooctane	97.9	% 43-149							
Surrogate: 1-Chlorooctadecane	103 9	% 42.5-16	1						

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Shalyn Rodriguez

Sample Received By:

Analytical Results For:

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

Fax To:

Received: 08/10/2022 Sampling Date: 08/10/2022

Reported: 08/16/2022 Sampling Type: Soil Project Name: RED HILLS 21 FED COM 2H Sampling Condition: ** (See Notes)

Project Number: 15507

Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 8 @ 7' (H223622-26)

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	08/15/2022	ND	2.03	101	2.00	0.364	
Toluene*	<0.050	0.050	08/15/2022	ND	1.96	98.1	2.00	0.122	
Ethylbenzene*	<0.050	0.050	08/15/2022	ND	1.93	96.7	2.00	0.831	
Total Xylenes*	<0.150	0.150	08/15/2022	ND	6.00	100	6.00	1.75	
Total BTEX	<0.300	0.300	08/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/16/2022	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	08/13/2022	ND	214	107	200	1.67	
DRO >C10-C28*	<10.0	10.0	08/13/2022	ND	208	104	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	08/13/2022	ND					
Surrogate: 1-Chlorooctane	95.0	% 43-149	1						
Surrogate: 1-Chlorooctadecane	101 9	% 42.5-16	1						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

0 11	(505)	333-2	320 FA	Y (202) 393-	4/0	(3	201	013-	700	1 17	1	323	_	_					_	
Company Nam	e: Etec	h Enviro	nmenta	& Safety Solu	tions							-		M.E	10					ANALYSIS REQUEST
Project Manage	F. Lan	ce CI	renshi	au						_	P.O.	_								
Address: 261	7 Wes	t Maria	and								Con	npa	ny: 7	Ma	cubor	Ker				
City: Hobbs				State: NM	Zij	o: 88	3240)			Attn	:Co	m	01	wal	Ker				
Phone #: (575	264-9	884		Fax #:							Add									
Project #:				Project Own							City	:						S	8	2)
Project Name:/	Red His	115 2	21 F	ed com	2#						Stat	e:		Zip	p:		e	15	12	
Project Locatio	n:										Pho	ne i	lk:				Chloride	(8015M)	(8021B)	
Sampler Name:	Auscr	1 Rios									Fax	#:					三	=	×	
FOR LAB USE ONLY					1	Г		M	ATRI	X	F	RE	SERV		SAMPLI	NG	10	TPH	BTEX	
Lab I.D.			ple I.		(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:		DATE	TIME		-	'n	
1	SP	2.	(8)	ICA		Y		×						8	-10-22		1	X	X	
2	SP	2	6	11 Ft		1									1		1			
3	SP	2.	00	12 Ft																
4	SP	2.	8	13 Ft		П														
5	SA	<i>3. 3.</i>		4Ft							T									
6	SD	3.	A	4 Ft 5 Ft		1														
7	SP	4.		4 1								1								
4	SP	4.	A	SFT				11				1								
å	SP	4.	A	6Ft				,			1	1		1	1/					
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PLEASE NOTE: Linking of	nd Damages.			nt's exclusive remedy for	any chi	m ariel	ng whe	ther bas	ed in a	entract o	or tort, s	d Barte	e limited	to the	amount paid	by the client to	the			

PLEACE NOTE: Limiting and Damages. Cardinal's fability and client's exclusive remody for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the annual paid by the client for the annual paid by the client for the annual paid and any other cause whatsoever shall be deemed werved under any and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be fable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profiles incurred by client, its subeldames affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the allows stated reasons or otherwise.

Relinquished By: Relinquished By:	Time:	Received By: Received By:	M-	Phone Result: Fax Result: REMARKS: email resu	☐ Yes☐ Yes☐ ItS	IZ No	Add'i Phone #: Add'i Fax #:
Delivered By: (Circle One)	() C. D. UZ	Sample Condition Cool Intact Yes Yes No No	CHECKED BY: (Initials)				

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O.

ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

est Marland 9884	State: NM Fax #: Project Owne	Zip	: 88	3240				-	omp		: 7	Newba	KAO												
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



RDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

Company Name	Etech Environmental & S	Safety Solutions	6							L	111	100					ANALYSIS REQUEST	
Project Manage	F. Lance Crenshaw	/							0. #							T		T
Address: 261	7 West Marland							Co	mp	any:	71	Tembor	rne					
city: Hobbs		tate: NM Z	ip: 8	824	0			At	tn:	oni	no	Rualk	en					
Phone #: (575)) 264-9884 Fax	x #:						Ad	ldre	ss:						1		
Project #:	Pro	oject Owner:						Cit	ly:						E	a		
roject Name:	Red # 115 21 F	ed Com	21	+				Sta	ate:		7	Zip:		9	TPH (8015M)	(8021R)		
Project Location	n:							Ph	one	#:				Chloride	100	8		
Sampler Name:	Aaron Rias							Fa	x#:					三	=	×		
FOR LAB USE ONLY			T	F	N	MATR	IX.		PR	ESEF	RV.	SAMPLE	NG	Jo	급	RTEX		
Lab I.D.	Sample I.D.	ONO(C) GO B VOICE	AIN	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME			a		
al	SP 7. @ 4		X			X					1	8-6-73		4	X	X		
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23	SP 8, A, 41 SP 8, 6 5F	7				-	1				4							1
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Relinquished By:	Date: /	Received By:	Phone Result:	☐ Yes	☑ No	Add'l Phone #:
Anon Riej Relinquished By:	Time:	Sledligues Received By:	Fax Result: REMARKS: email resu	□ Yes	Ø No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other	() C-0.16	Sample Condition CHECKED BY: Cool Intact Yes Yes No No				

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September 02, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS 21 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 09/02/22 11:10.

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

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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Cool & Intact

Analytical Results For:

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

Received: 09/02/2022 Reported:

Sampling Date: 09/01/2022 09/02/2022 Sampling Type: Soil

Sampling Condition:

Project Name: RED HILLS 21 FED COM 2H Project Number: NONE GIVEN

Sample Received By: Shalyn Rodriguez Project Location: MEWBOURNE - RURAL JAL, NM

Sample ID: SP 6 @ 4' (H224040-01)

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	09/02/2022	ND	1.84	92.1	2.00	5.60	
Toluene*	<0.050	0.050	09/02/2022	ND	1.81	90.6	2.00	7.10	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	1.79	89.5	2.00	8.10	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	ND 5.53		6.00	8.44	
Total BTEX	<0.300	0.300	09/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 69.9-14	0						
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	09/02/2022	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	09/02/2022	ND	192	96.2	200	1.21	
DRO >C10-C28*	RO >C10-C28* <10.0 10.0		09/02/2022	ND	188	93.8	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					
Surrogate: 1-Chlorooctane	89.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	96.1	% 46.3-17	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

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

Applyzod By: 14

Received: 09/02/2022 Reported: 09/02/2022 Sampling Date: 09/01/2022 Sampling Type: Soil

Project Name:

RTFY 8021R

RED HILLS 21 FED COM 2H

Sampling Condition: Cool & Intact

Project Number: NONE GIVEN

Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - RURAL JAL, NM

ma/ka

Sample ID: SP 6 @ 6' (H224040-02)

B1EX 8021B	mg/	кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/02/2022	ND	1.84	92.1	2.00	5.60	
Toluene*	<0.050	0.050	09/02/2022	ND	1.81	90.6	2.00	7.10	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	1.79	89.5	2.00	8.10	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	5.53	92.2	6.00	8.44	
Total BTEX	<0.300	0.300	09/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/02/2022	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	09/02/2022	ND	192	96.2	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	188	93.8	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					
Surrogate: 1-Chlorooctane	76.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	82.8	% 46.3-17	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

Company Name: Etech Environmental & Safety Solutions, Inc.									BI	LL	TO	ANALYSIS REQUEST														
Project Manager: Lance City									P.O	. #:																
Address: 2617 W Marland								Con	npa	ny 🎢	14	bon	M					1		1						
City: Hobbs		State: NM	Zip	: 88	240				Attr	1: 6	可用	14	USIA	*				1								
Phone #: (575	5) 264-9884	Fax #:							Add	ires	s:															- 1
Project #:		Project Owner	r:						City	/ :							_					1				- 1
Project Name:	Red Hills 216	Ced Com 2							Stat	te:		Zi	p:		0	TPH (8015M)	BTEX (8021B)									
Project Location:						Pho	one i	J:				Chloride	801	80												
Sampler Name: Lague Comphan							Fax	#:					등	H	EX											
FOR LAB USE ONLY MATRIX					X		PRE	SERV	1	SAMPLI	NG	1	F	18			1	1					- 1			
Lab I.D.	Sample I	.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:		DATE	TIME												
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Delivered By: Sampler - UPS	- Bus - Other:	2.8°.#	ei 112	3		Cool	Int	act Yes No	- 1	C		KEC	D BY:	lease 6	JIIQII I	count	- and	(dop)	01 00	0 10 1		T.GO. ICI				

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 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

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**

CONDITIONS

Action 140581

CONDITIONS

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	140581
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. HOLD Deferral Request. Variance Approved for the installation of a liner in the northern and southern sections of the release. Do not backfill excavation on pad (proposed deferred area) until OCD can review lab data from confirmation samples.	9/12/2022