

Incident ID	nAPP2124632147
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>215</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

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

Printed Name: Connor Walker Title: Sr. Engineer

Signature: _____ Date: _____

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

OCD Only

Received by: _____ Date: _____

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Remediation Plan

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

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

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

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

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

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

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

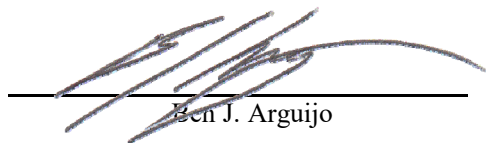
Remediation Summary, Variance & Deferral Request

Mewbourne Oil Company Red Hills Recycle Pond Facility

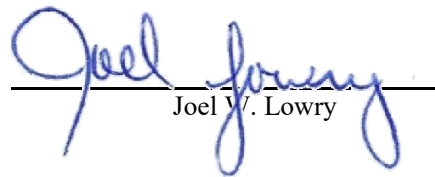
Lea County, New Mexico
Unit Letter "J", Section 16, Township 26 South, Range 32 East
Latitude 32.0397980 North, Longitude 103.675828 West
NMOCD Reference No. nAPP2124632147

Prepared By:

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Lubbock, Texas 79423



Ben J. Arguijo



Joel W. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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APPENDICES

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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 Recycle 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?	215'			
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
215'	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	600	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	100	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	N/A	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

* Measured in milligrams per kilogram (mg/kg)

† Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

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

4.0 INITIAL SITE ASSESSMENT

On September 17 and 18, 2021, an initial site assessment was conducted by a third-party environmental contractor that is no longer affiliated with the site. During the initial site assessment, a series of eight (8) 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, five (5) soil bores and/or test trenches (H1 through H5) 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 chloride test kit.

Based on field test data, the vertical extent of chloride contamination was adequately defined and ranged from approximately two (2) feet below ground surface (bgs) in the area characterized by sample point SP1 to eight (8) feet bgs in the area characterized by sample point SP3. However, additional delineation was required to determine the horizontal extent of chloride contamination, as well as the horizontal and vertical extent of BTEX and TPH contamination.

Field data is provided in Appendix B. General photographs of the site are provided in Appendix C.

5.0 REMEDIATION ACTIVITIES SUMMARY

On November 9, 2021, Mewbourne contracted Etech to assume remediation activities for the release.

On February 8, 2022, Etech commenced remediation activities at the release site. 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 vertical and horizontal extent of impacted soil and to guide the excavation. The sidewalls of the excavation 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 excavation was advanced vertically to approximately four (4) feet bgs.

On February 9, 2022, Etech collected five (5) confirmation soil samples (NW1, NW2, NW3, NW4, and EW1) from the sidewalls of the excavated area. The soil samples were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standard 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 112 mg/kg in soil sample EW1 to 288 mg/kg in soil sample NW1.

In addition, Etech advanced three (3) test trenches (FS1, FS2, and FS4) in the floor of the excavated area to further investigate the vertical extent of impacted soil. During the advancement of the 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, three (3) delineation soil samples (FS1 @ 12', FS2 @ 13', and FS4 @ 4') 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 Standard in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 48.0 mg/kg in soil sample FS2 @ 13' to 336 mg/kg in soil sample FS1 @ 12'. Based on these laboratory analytical results, the vertical extent of impacted soil was adequately defined in the areas characterized by test trenches FS1, FS2, and FS4.

On February 10, 2022, Etech collected two (2) confirmation soil samples (SW1 and SW2) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results

indicated BTEX and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standard in each of the submitted soil samples. BTEX concentrations were also below the laboratory MDL. TPH concentrations ranged from less than the laboratory MDL in soil sample SW2 to 264 mg/kg in soil sample SW1. Chloride concentrations were 80.0 mg/kg in soil sample SW1 and 32.0 mg/kg in soil sample SW2.

On February 17, 2022, Etech collected 20 confirmation soil samples (NW5, NW6, NW7, NW8, NW9, NW10, NW11, NW12, NW13, SW3, SW4, SW5, SW6, SW7, SW8, SW9, SW10, SW11, SW12, and SW13) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standard 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 SW6 to 272 mg/kg in soil sample SW11.

On February 24, 2022, Etech advanced six (6) test trenches (SP1 through SP6) within the release margins in an effort to further investigate the vertical extent of impacted soil. 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 10 delineation soil samples (SP1 @ Surf., SP1 @ 2', SP2 @ Surf., SP2 @ 20', SP3 @ Surf., SP3 @ 14', SP4 @ Surf., SP4 @ 14', SP6 @ Surf., and SP6 @ 2') 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 Standard in each of the submitted soil samples. BTEX concentrations were also below the laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in soil sample SP3 @ 14' to 2,000 mg/kg in soil sample SP1 @ Surf. Based on these laboratory analytical results, the vertical extent of impacted soil was adequately defined in the areas characterized by test trenches SP1, SP3, SP4, SP5, and SP6. However, additional vertical delineation was required in the area characterized by test trench SP2.

On February 25, 2022, Etech advanced 10 hand-augered soil bores (NH1, NH2, NH3, EH1, EH2, SH1, SH2, SH3, WH1, and WH2) at the inferred edges of the affected area in an effort to further investigate the horizontal extent of impacted soil. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for concentrations of chloride utilizing a chloride test kit and/or the presence of VOCs utilizing olfactory/visual senses. Based on field observations and field test data, a total of 20 delineation soil samples (NH1 @ Surf., NH1 @ 1', NH2 @ Surf., NH2 @ 1', NH3 @ Surf., NH3 @ 1', EH1 @ Surf., EH1 @ 1', EH2 @ Surf., EH2 @ 1', SH1 @ Surf., SH1 @ 1', SH2 @ Surf., SH2 @ 1', SH3 @ Surf., SH3 @ 1', WH1 @ Surf., WH1 @ 1', WH2 @ Surf., and WH2 @ 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 Standard in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL, with the exception of soil sample NH1 @ 1', which exhibited a TPH concentration of 13.7 mg/kg. Chloride concentrations ranged from 32.0 mg/kg in soil samples NH1 @ Surf., EH1 @ 1', and SH3 @ 1' to 336 mg/kg in soil sample SH1 @ Surf. Based on these laboratory analytical results, the horizontal extent of impacted soil was adequately defined.

On March 1, 2022, Etech further advanced test trench SP2 in an effort to determine the vertical extent of chloride contamination in the area. During the advancement of the test trench, soil samples were collected and field-screened for concentrations of chloride utilizing a chloride test kit. Based on field observations and field test data, one (1) delineation soil sample (SP2 @ 21') was submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated the chloride concentration was 96.0 mg/kg and below the NMOCD Closure Criteria and NMOCD Reclamation Standard. Based on these laboratory analytical results, the vertical extent of chloride contamination was adequately defined.

On March 9, 2022, the excavation was further advanced in the area characterized by soil sample SW1. Etech collected eight (8) confirmation soil samples (NW14, NW15, NW16, NW17, NW18, SW1-A, SW14, and SW15) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and

NMOCD Reclamation Standard 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 NW14 to 256 mg/kg in soil sample SW14.

On March 10, 2022, Etech collected one (1) confirmation soil sample (SW16) from the sidewall of the excavated area. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standard. BTEX and TPH concentrations were also below the applicable laboratory MDL. The chloride concentration was 64.0 mg/kg.

On March 15, 2022, Etech collected eight (8) confirmation soil samples (EW2, EW3, EW4, EW5, SW17, WW6, WW7, and WW8) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standard in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 48.0 mg/kg in soil samples EW2, EW3, and EW5 to 160 mg/kg in soil sample SW17.

On March 16, 2022, Etech collected two (2) confirmation soil samples (EW6 and SW18) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standard in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations were 64.0 mg/kg in soil sample EW6 and 544 mg/kg in soil sample SW18.

From March 18 through 21, 2022, Etech advanced a series of nine (9) hand-augered soil bores and/or test trenches (DSP1 through DSP9) to further characterize the affected area adjacent to and/or beneath the on-site storage tanks and associated containment area, piping, appurtenances, and electrical facilities requiring deferral of remediation. During the advancement of the soil bores/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 18 deferral characterization soil samples (DSP1 @ Surf., DSP1 @ 1', DSP2 @ Surf., DSP2 @ 1', DSP3 @ Surf., DSP3 @ 8', DSP4 @ Surf., DSP4 @ 4', DSP5 @ Surf., DSP5 @ 8', DSP6 @ Surf., DSP6 @ 10', DSP7 @ Surf., DSP7 @ 14', DSP8 @ Surf., DSP8 @ 8', DSP9 @ Surf., and DSP9 @ 8') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical data, the extent of impacted soil was adequately defined and ranged from approximately one (1) foot bgs in the areas characterized by sample points DSP1 and DSP2 to 14 feet bgs in the area characterized by sample point DSP7.

The dimensions of the excavated area are approximately 282 to 748 feet in length, 18 to 111 feet in width, and four (4) feet in depth. To date, Etech has transported approximately 9,720 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 9,660 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

The extent of the affected area and the locations of the hand-augered soil bores and test trenches are depicted in Figure 3A, "Site & Sample Location Map (Delineation)". The extent of the excavated area, the area to be deferred, and the locations of the confirmation and deferral characterization samples are depicted in Figure 3B, "Site & Sample Location Map (Excavation)". Soil chemistry data is summarized in Table 1. Field data and soil profile logs are provided in Appendix B. General photographs of the site are provided in Appendix C. Laboratory analytical reports are provided in Appendix F.

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 Recycle release site is in an area of "medium" potential for karst occurrence. However, it is less than 1,200 feet from the area denoted as having a "high" karst potential and is potentially unstable. Due to the possible presence of karst and unstable soil, 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 in the areas characterized by sample points FS1, FS2, and SP1 through SP5 poses a threat to groundwater quality, as well as to simulate the efficacy of installing a geosynthetic liner on the floor of the excavation. 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 (21 feet bgs), 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 would be approximately 19.38 mg/L in 958 years if a liner were installed on the floor of the excavated area, versus 291.1 mg/L in 258 years if the excavation is not lined (see Appendix D).

Since the estimated chloride concentration is 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 model effectively demonstrates that the four (4) foot bgs excavation and installation of a geosynthetic liner provides an "equal or better protection of fresh water, public health and the environment" as a deeper excavation.

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, piping, appurtenances, and electrical facilities 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 238 years have lapsed (see Appendix E).

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 DSP1 through DSP9 "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 a 20-mil, string-reinforced liner on the floor of the excavated area atop impacted soil affected above the NMOCD Closure Criteria in the areas characterized by sample points FS1, FS2, and SP1 through SP5. Approximately six (6) inches of pad material will be installed both above and below the liner in an effort to maintain its integrity during backfilling activities. The liner will be sloped to facilitate shedding of moisture outside both the footprint of the excavation and the maximum horizontal extent of impacted soil. This engineered control is designed to inhibit the vertical migration of chloride contamination remaining in-situ.

Immediately following installation of the liner and pad material, the excavated area 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

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX are below the applicable NMOCD Closure Criterion and NMOCD Reclamation Standard. Remediation of TPH- and/or chloride-impacted soil affected above the NMOCD Closure Criteria remaining in-situ adjacent to and/or beneath the on-site storage tanks and associated containment area, pipes, appurtenances, and electrical facilities will be completed upon decommissioning and abandonment of the water treatment 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 area 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 active location will be conducted upon decommissioning and abandonment of the facility.

10.0 LIMITATIONS

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

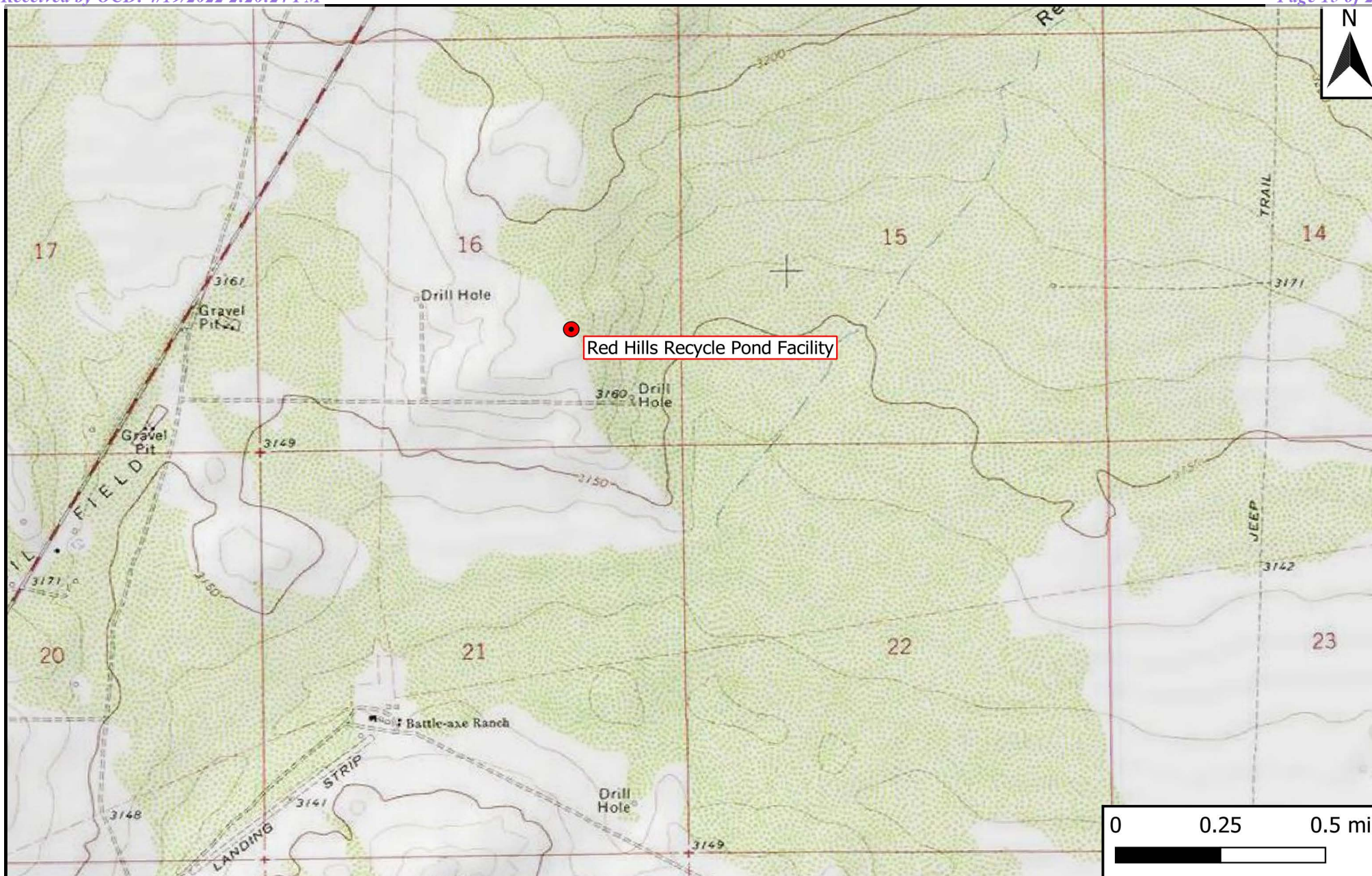
Suite 117

Hobbs, NM 88240

(Electronic Submission)

Figure 1

Topographic Map



Legend

- Site Location

Figure 1

Topographic Map
 Mewbourne Oil Company
 Red Hills Recycle Pond Facility
 GPS: 32.039798, -103.675828
 Lea County



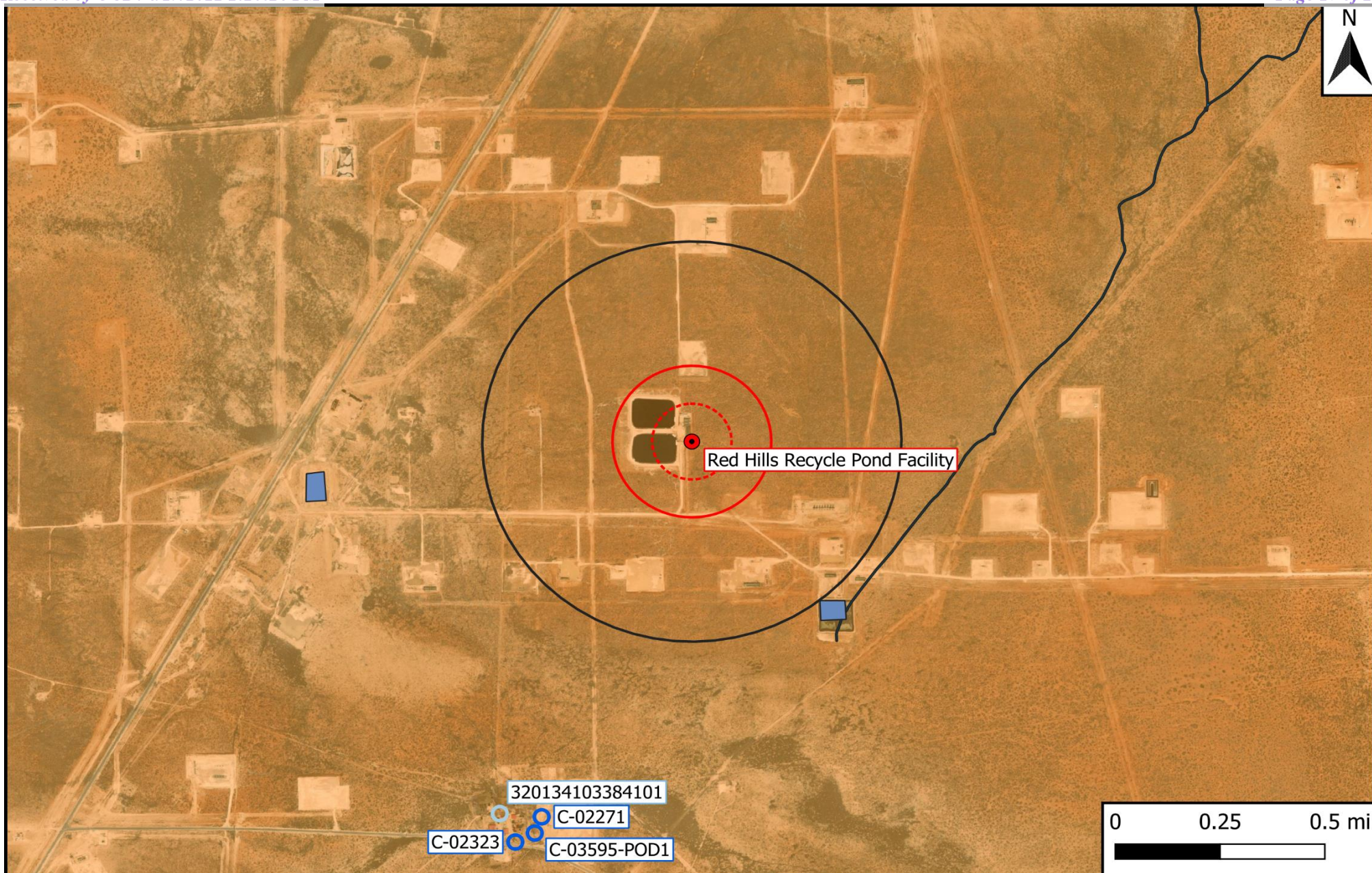
Drafted: bja

Checked: jwl

Date: 12/20/21

Figure 2

Aerial Proximity Map



Legend

- | | | |
|------------------------|------------------------------|-------------------|
| ● Site Location | ■ 1% Annual Flood Chance | ⋯ 500-Ft Radius |
| ○ Well - NMOSE | ■ Emergent/Forested Wetlands | ⋯ 1,000-Ft Radius |
| ○ Well - USGS | ■ Freshwater Pond/Lake | ⋯ 0.5-Mi Radius |
| ○ Well - Other | ■ Medium/High Karst | |
| — Potash Mine Workings | ■ Riverine | |

Figure 2

Aerial Proximity Map
 Mewbourne Oil Company
 Red Hills Recycle Pond Facility
 GPS: 32.039798, -103.675828
 Lea County



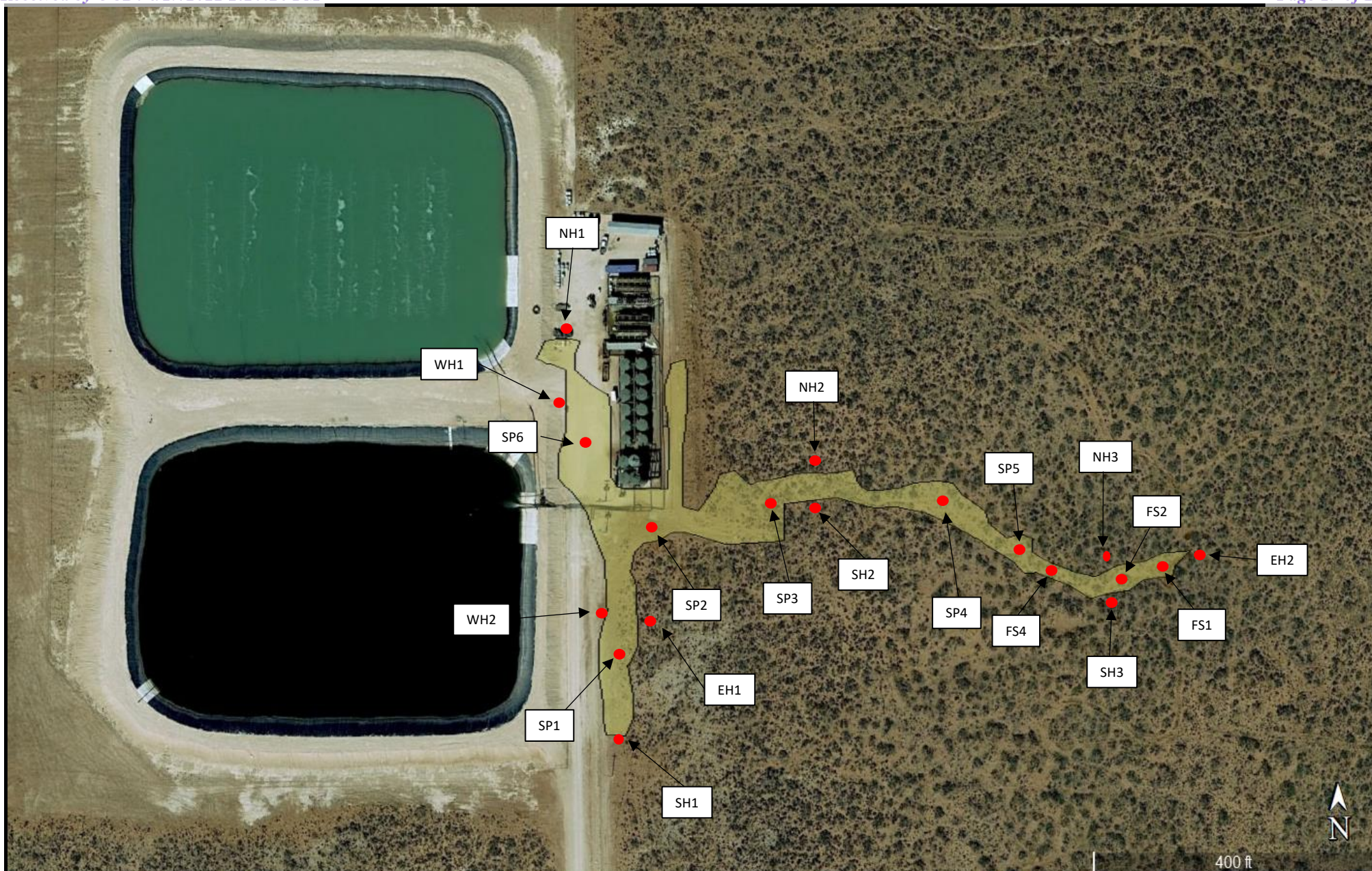
Drafted: bja

Checked: jwl

Date: 12/20/21

Figure 3A & 3B

Site & Sample Location Maps

**Legend:**

- Affected Area
- Sample Point

Figure 3A

Site & Sample Location Map (Delineation)
Red Hills Recycle Facility
Mewbourne Oil Company
GPS: 32.039798, -103.675828
Lea County



Drafted: lc

Checked: jwl

Date: 3/8/22

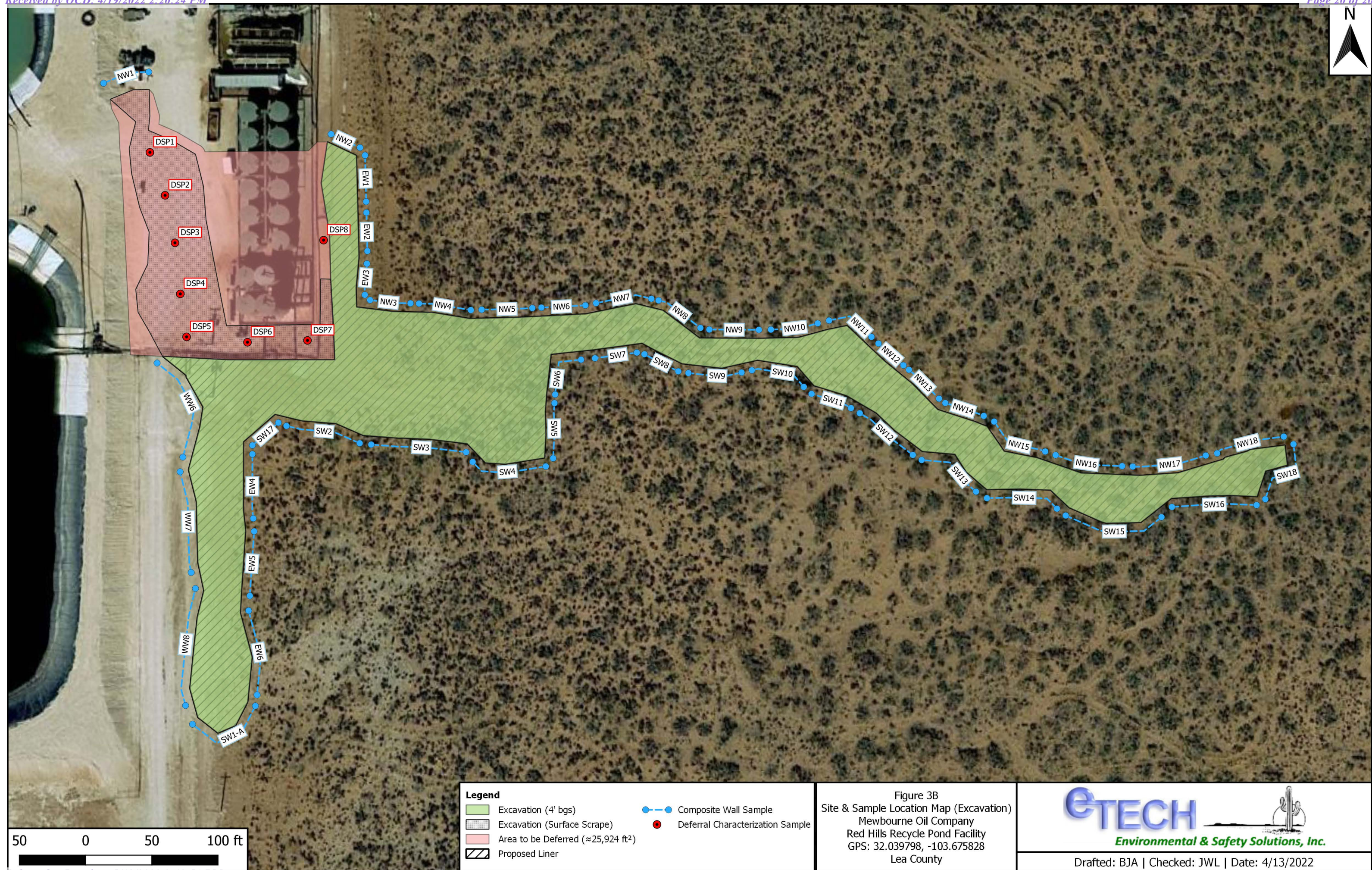


Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Red Hills Recycle Pond Facility NMOCD Ref. #: nAPP2124632147											
NMOCD Closure Criteria				10	50	-	-	-	-	100	600
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
Delineation & Deferral Samples											
FS1 @ 12'	2/9/2022	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FS2 @ 13'	2/9/2022	13	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS4 @ 4'	2/9/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SP1 @ Surf.	2/24/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,000
SP1 @ 2'	2/24/2022	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
SP2 @ Surf.	2/24/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,060
SP2 @ 20'	2/24/2022	20	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	752
SP2 @ 21'	3/1/2022	21	In-Situ	-	-	-	-	-	-	-	96.0
SP3 @ Surf.	2/24/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,920
SP3 @ 14'	2/24/2022	14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SP4 @ Surf.	2/24/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,520
SP4 @ 14'	2/24/2022	14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
SP6 @ Surf.	2/24/2022	0	Excavated	<0.050	<0.300	<10.0	98.0	98.0	<10.0	98.0	832
SP6 @ 2'	2/24/2022	2	In-Situ	<0.050	<0.300	<10.0	13.9	13.9	<10.0	13.9	96.0
NH1 @ Surf.	2/25/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NH1 @ 1'	2/25/2022	1	In-Situ	<0.050	<0.300	<10.0	13.7	13.7	<10.0	13.7	80.0
NH2 @ Surf.	2/25/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
NH2 @ 1'	2/25/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NH3 @ Surf.	2/25/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NH3 @ 1'	2/25/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
EH1 @ Surf.	2/25/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EH1 @ 1'	2/25/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EH2 @ Surf.	2/25/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
EH2 @ 1'	2/25/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SH1 @ Surf.	2/25/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
SH1 @ 1'	2/25/2022	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SH2 @ Surf.	2/25/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SH2 @ 1'	2/25/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SH3 @ Surf.	2/25/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SH3 @ 1'	2/25/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WH1 @ Surf.	2/25/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
WH1 @ 1'	2/25/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
WH2 @ Surf.	2/25/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WH2 @ 1'	2/25/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
DSP1 @ Surf.	3/18/2022	0	Deferral	<0.050	<0.300	<10.0	29.8	29.8	22.6	52.4	20,800
DSP1 @ 1'	3/18/2022	1	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
DSP2 @ Surf.	3/18/2022	0	Deferral	<0.050	<0.300	<10.0	1,040	1,040	928	1,970	26,000
DSP2 @ 1'	3/18/2022	1	Deferral	<0.050	<0.300	<10.0	18.4	18.4	18.2	36.6	80.0
DSP3 @ Surf.	3/18/2022	0	Deferral	<0.050	<0.300	<10.0	4,700	4,700	1,260	5,960	32,800
DSP3 @ 8'	3/18/2022	8	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Red Hills Recycle Pond Facility NMOCD Ref. #: nAPP2124632147											
NMOCD Closure Criteria				10	50	-	-	-	-	100	600
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
DSP4 @ Surf.	3/18/2022	0	Deferral	<0.050	<0.300	<10.0	232	232	104	336	54,000
DSP4 @ 4'	3/18/2022	4	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
DSP5 @ Surf.	3/18/2022	0	Deferral	<0.050	<0.300	<10.0	68.4	68.4	27.0	95.4	1,330
DSP5 @ 8'	3/18/2022	8	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
DSP6 @ Surf.	3/21/2022	0	Deferral	<0.050	<0.300	<10.0	71.4	71.4	43.3	115	93,600
DSP6 @ 10'	3/21/2022	10	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
DSP7 @ Surf.	3/21/2022	0	Deferral	<0.050	<0.300	<10.0	689	689	456	1,150	26,000
DSP7 @ 14'	3/21/2022	14	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
DSP8 @ Surf.	3/21/2022	0	Deferral	<0.050	<0.300	<10.0	11.0	11.0	<10.0	11.0	78,400
DSP8 @ 8'	3/21/2022	8	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
DSP9 @ Surf.	3/21/2022	0	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	49,600
DSP9 @ 8'	3/21/2022	8	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
Excavation Samples											
NW1	2/9/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
NW2	2/9/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
NW3	2/9/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
NW4	2/9/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
NW5	2/17/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW6	2/17/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW7	2/17/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NW8	2/17/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW9	2/17/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
NW10	2/17/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
NW11	2/17/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
NW12	2/17/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW13	2/17/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
NW14	3/9/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW15	3/9/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW16	3/9/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW17	3/9/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW18	3/9/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW1	2/9/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
EW2	3/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW3	3/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW4	3/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EW5	3/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW6	3/16/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW1	2/10/2022	2	Excavated	<0.050	<0.300	<10.0	206	206	57.8	264	80.0
SW1-A	3/9/2022	2	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
SW2	2/10/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW3	2/17/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

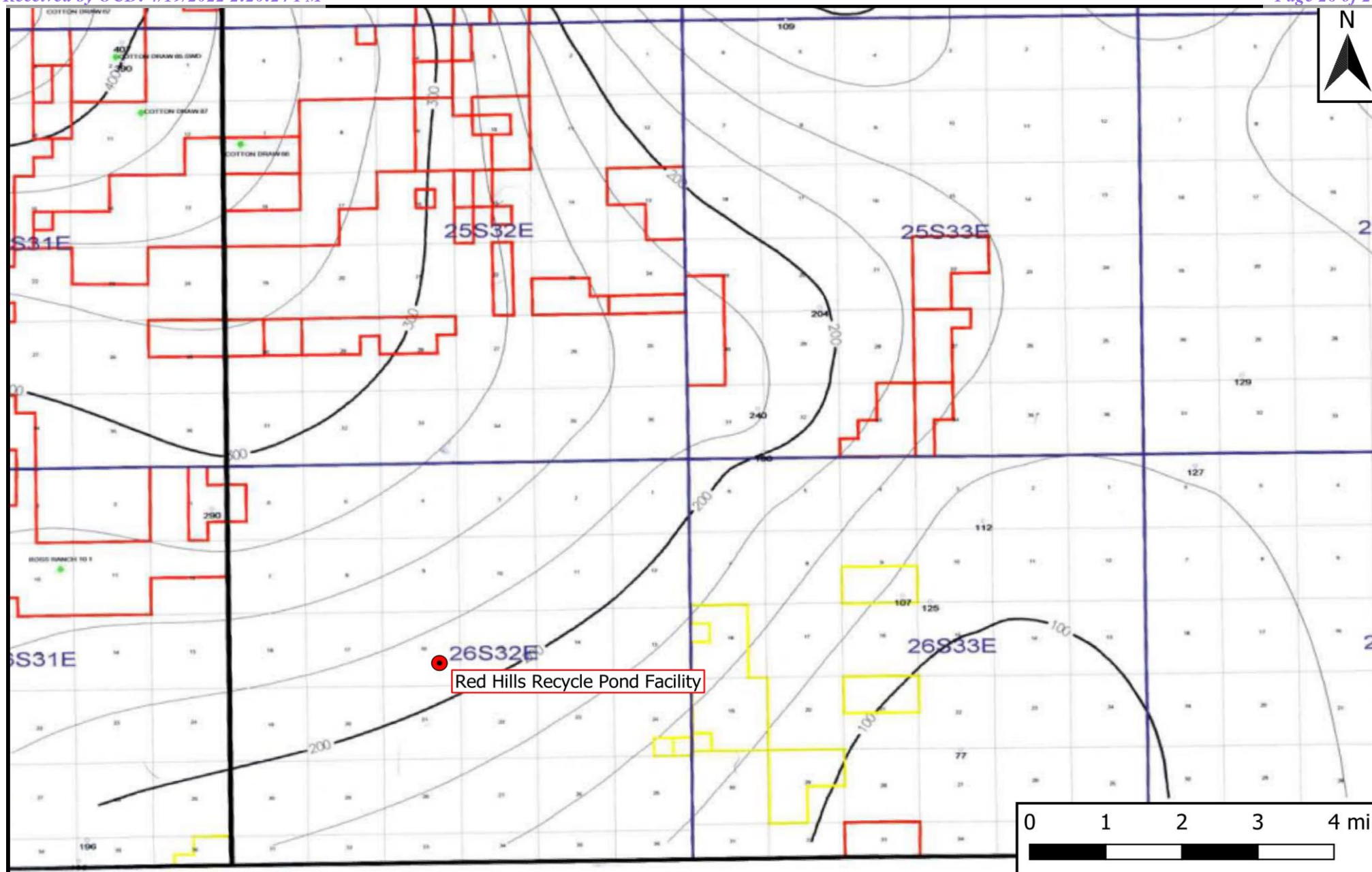
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NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SW4	2/17/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW5	2/17/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW6	2/17/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW7	2/17/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SW8	2/17/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW9	2/17/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW10	2/17/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW11	2/17/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
SW12	2/17/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW13	2/17/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW14	3/9/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
SW15	3/9/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW16	3/10/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW17	3/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SW18	3/16/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
WW6	3/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW7	3/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW8	3/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0

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

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

Appendix A

Depth to Groundwater Information



Legend

- Site Location

Figure 4

Inferred Depth to Groundwater Trend Map
 Mewbourne Oil Company
 Red Hills Recycle Pond Facility
 GPS: 32.039798, -103.675828
 Lea County



Drafted: bja

Checked: jwl

Date: 12/20/21




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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth	Well Depth	Water Column
C 02271	R	CUB	LE	2	3	21	26S	32E	624449	3544111*		1609	150	125	25

Average Depth to Water: 125 feet

Minimum Depth: **125 feet**

Maximum Depth: **125 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 625025.97

Northing (Y): 3545613.55

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.


11/15/21 10:49 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

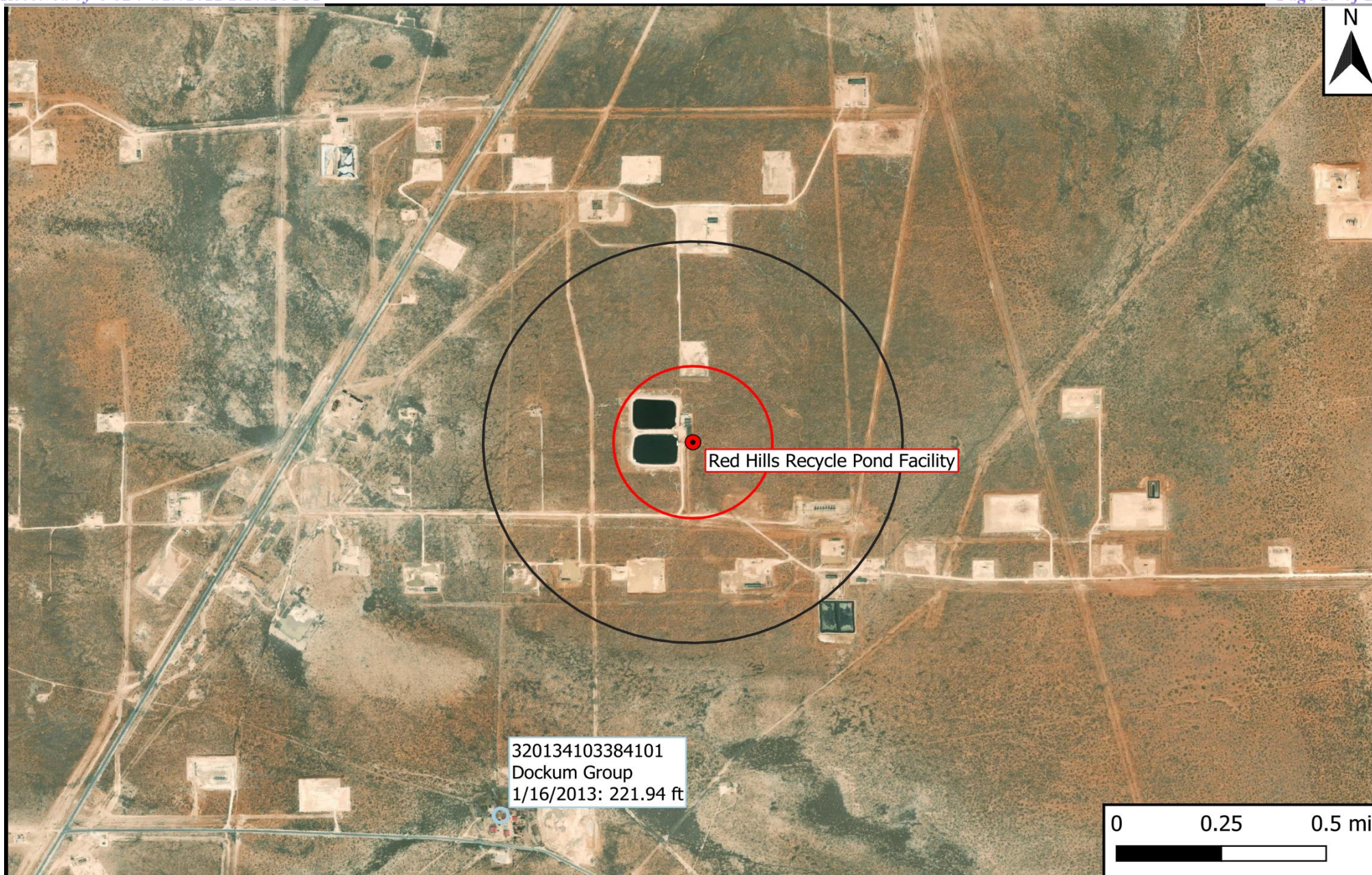
		(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
C	02271	2	3	21	26S	32E		624449	3544111*
									
Driller License:		Driller Company:							
Driller Name:		UNKNOWN							
Drill Start Date:		Drill Finish Date:				12/31/1909			
Log File Date:		PCW Rev Date:				Source:			
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size:		8.00				Depth Well:			
						150 feet			
						Depth Water:			
						125 feet			

*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.

11/15/21 10:49 AM

POINT OF DIVERSION SUMMARY



Legend

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

Figure 5

USGS Well Proximity Map
Mewbourne Oil Company
Red Hills Recycle Pond Facility
GPS: 32.039798, -103.675828
Lea County



Drafted: bja

Checked: jwl

Date: 12/20/21



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater

Geographic Area:

United States

GO



Click for News Bulletins

Groundwater levels for the Nation



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

Search Results -- 1 sites found

Agency code = usgs

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 aquifer (N100PCSRVR) national aquifer.

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

Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1993-06-16		D	72019	405.00			1	L			A
2013-01-16	19:10 UTC	m	72019	221.94			P	S	USGS	S	A

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	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	A	Approved for publication -- Processing and review completed.

[Questions about sites/data?](#)

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[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: [USGS Water Data Support Team](#)

Page Last Modified: 2022-04-11 14:04:53 EDT

0.43 0.32 nadww01

Appendix B

Field Data & Soil Profile Logs



Field Samples*

Date: 9/17 - 9/18/2021

Project: Red Hills Recycle Facility

Project Number: 14966

Latitude: 32.039798

Longitude: -103.675828

Sample ID	PID/Odor	Chloride Conc.	GPS
SP1 @ Surface		5,938	
SP1 @ 1'		2,221	
SP1 @ 2'		219	
SP2 @ Surface		14,253	
SP2 @ 1'		4,503	
SP2 @ 2'		2,036	
SP2 @ 3'		4,738	
SP2 @ 4'		3,018	
SP2 @ 5'		2,256	
SP2 @ 6'		3,072	
SP2 @ 7'		403	
SP3 @ 1'		1,192	
SP3 @ 2'		1,059	
SP3 @ 3'		1,071	
SP3 @ 4'		2,827	
SP3 @ 5'		1,500	
SP3 @ 6'		1,114	
SP3 @ 7'		815	
SP3 @ 8'		453	
SP4 @ Surface		12,338	
SP4 @ 1'		3,573	
SP4 @ 2'		1,924	
SP4 @ 3'		951	
SP4 @ 4'		900	
SP4 @ 5'		747	
SP4 @ 6'		370	
SP5 @ Surface		4,501	
SP5 @ 1'		1,374	
SP5 @ 2'		1,286	
SP5 @ 3'		604	
SP5 @ 4'		460	
SP6 @ Surface		346	
SP7 @ Surface		218	
SP8 @ Surface		66,619	
SP8 @ 1'		3,697	
SP8 @ 2'		3,203	
SP8 @ 3'		1,943	
SP8 @ 4'		1,305	

*Samples collected and field-screened by a third-party contractor that is no longer affiliated with the site.

Sample Log

Date: 2-9-22

Project: Red Hills Recycle Facility

Project Number: 14966Latitude: 32.039798Longitude: -103.675828

Sample ID	PID/Odor	Chloride Conc.	GPS
FS1e3 • FS1e6 • FS1e10	—	2840 • 1532 • 1240 >	FS1e12 516
EW1 ^{Left} EW1 ^{Right}	—	384 384	
NW1 ^{Left} NW1 ^{Right}	—	<120 1532	
NW2 ^{Left} NW2 ^{Right}	—	468 732	
NW3 ^{Left} NW3 ^{Right}	—	468 384	
NW4 ^{Right}	—	344	
SW1 ^{Left} SW1 ^{Right}	—	236 1072 • 1152	
SW2 ^{Left} SW2 ^{Right}	—	924 • 1024 • 144	
SW3 ^{Left} SW3 ^{Right}	—	236 672	
SW4 ^{Left} SW4 ^{Right}	—	516	
FS2e4 • FS2e6 • FS2e	—	2204 • 2376 •	
FS3e4 • FS3e6 • FS3e	—	1768 • 924	
FS4e4	—	468	
FS2e10 • FS2e12 • FS2e13	—	1332 • 732 • 172	
FS3e10 • FS3e12	—	1900 • 620 •	
SW1 ^{Left}	—	304	
SW2 ^{Left}	—	1240 • 1960 • 144	
FS3e16	—	384	
FS5e5 • FS5e6 • FS5e8	—	620 • 672 • 996 • FS5e12 • 924 • FS5e14 •	236
NW5 ^{Left} NW5 ^{Right}	—	268 <120	
SW5 ^{Left}	—	236	
NW6	—	172	
SW6	—	204	
FS6e6	—	268	
SW7	—	268	
SW8	—	172	
NW7	—	172	
NW8	—	1428 • <120	
NW9	—	792 • 236	
FS7e4	—	304	
FS8e4	—	996	
SW9	—	708 • <292	
NW10	—	324	
FS9e4	—	1760	
FS10e4	—	980	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

H/S f.

H/S f.

H/S f.

H/S f.



Sample Log

Date: 02/16/20

Project: 14966 Latitude: 32.039794 Longitude: -103.675824

Sample ID	PID/Odor	Chloride Conc.	GPS
SW10	—	228	
NW11	—	228	
FS11@4'	—	1232	
FS12@4'	—	984	
SW11	—	1232-6324	
NW12	—	blowout < 200	
FS13@4'	—	708	
FS14@4'	—	1144	
SW12	—	592	
NW13	—	1020	
FS15@4'	—	996	
NW13	—	516	
NW14	—	856-732-672	
SW12	—	144	
SW13	—	144	
FS16@4'	—	996	
FS17@4'	—	1332	
SW14	—	1240-1900-1332	
FS18@4'	—	1768	
NW14	—	672-568	
NW15	—	996-792	
SW14 SW14	—	996-1152	
NW15	—	996-1532-1428-620	
SW13+	—	924-1072-1072-996	
SW14+	—	1072-856	
SW13+	—	1240-996	
SW13++	—	1333	
NW15	—	856-620-620	
NW15+	—	1240	
NW15+	—	620	
SW13+	—	1152	
NW15+	—	144	
SW13+	—	468	
SW12++	—	924-568-384	
NW16	—	996-796	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

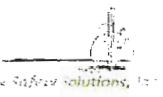
Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GP5 Sample Points, Center of Comp Areas



Sample Log

Date: _____

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

Sample ID	PID/Odor	Chloride Conc.	GPS
SW 13+	—	732-856-856-620-568	
NW 16?	—	516-468	
NW 16++	—	296-260-228	
WW 1	—	1576	
WW 2	—	4332	
NW 15	—	144	
NW 16	—	296	
NW 17	—	260	
NW 18	—	228	
SW 14	—	468	
SW 15	—	384	
SW 16	—	5116	
WW 3	—	2464	
WW 4	—	704	
SW 17	—	196	
WW 5	—	1368	
SW 17+	—	228	
SW 17++	—	372	
WW 6	—	412	
WW 7	—	500	
EW 2	—	296	
EW 3	—	296	
WW 8	—	228	
EW 4	—	196	
FA-4'	—	260	
FB-4'	—	372	
Fce2'	—	168	
FDe2'	—	760	
EW 5	—	228	
WW 9	—	956	
WW 9	—	824-596-412	
FDe3'-FDe4'	—	596-228	
-Ee2'	—	196	
EW 6	—	116	
-Fe2'	—	452	
SW 18	—	548	

Sample Point = SP #1 @ ## etc FG02' — 196 Test 1 reocl = TT #1 @ ## Reservoirs = SP #1 @ 30 or 50 of SW #10
Floor = FL #1 etc FH02' — 168 Refusal = SP #1 @ 4'-R Stockpile = Stockpile #1
Sidewall = SW #1 etc Soil Intended to be Deferred = SP #1 @ 4' In-Situ GPS Sample Points, Center of Comp Areas



Sample Log

Test Trenches + Horizontals

Date: 2-24-22

Project: Red Hills Recycle Facility

Project Number: 14966

Latitude: 32.039798

Longitude: -103.675828

Test Trenches

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Soil Profile

Date: _____

Project: Red Hills Recycle Facility

Project Number: 14966 Latitude: 32.039798 Longitude: -103.675828

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

Appendix C

Photographic Log


Photographic Log

Photo Number: 1	
Date: 7/12/2021	
Photo Direction: North	
Coordinates: 32.039739,-103.676102	
Photo Description:	
View of the affected area.	

Photo Number: 2	
Date: 7/12/2021	
Photo Direction: Northeast	
Coordinates: 32.039810,-103.676211	
Photo Description:	
View of the affected area.	

Photographic Log

Photo Number: 3	
Date: 7/12/2021	
Photo Direction: Southeast	
Coordinates: 32.039904,-103.676145	
Photo Description: View of the affected area.	

Photo Number: 4	
Date: 7/12/2021	
Photo Direction: East-Northeast	
Coordinates: 32.039904,-103.676145	
Photo Description: View of the affected area.	

Photographic Log



Photo Number: 5	 A photograph showing industrial equipment in a desert environment. In the foreground, there are large black pipes and a green cylindrical tank. In the background, there is a fenced-in area and a small building. The sky is blue with some clouds. A timestamp in the top right corner reads "07/12/2021 10:04" and coordinates "+32.039904, -103.676145".
Date: 7/12/2021	
Photo Direction: South	
Coordinates: 32.039904,-103.676145	
Photo Description:	
View of the affected area.	

Photo Number: 6	 A photograph showing industrial equipment in a desert environment. In the foreground, there are large black pipes and a red fuel tank. In the background, there is a large cylindrical tank and a building. The sky is blue with some clouds. A timestamp in the top right corner reads "07/12/2021 10:06" and coordinates "+32.040566, -103.675829".
Date: 7/12/2021	
Photo Direction: South	
Coordinates: 32.040566,-103.675829	
Photo Description:	
View of the affected area.	

Photographic Log




Photo Number: 7	
Date: 7/12/2021	
Photo Direction: South	
Coordinates: 32.039659,-103.676085	
Photo Description:	
View of the affected area.	

Photo Number: 8	
Date: 3/15/2022	
Photo Direction: East	
Coordinates: 32.039770, -103.676123	
Photo Description:	
View of the excavated area.	

Photographic Log

Photo Number: 9	
Date: 3/15/2022	
Photo Direction: South	
Coordinates: 32.039770, -103.676123	
Photo Description: View of the excavated area.	

Photo Number: 10	
Date: 3/15/2022	
Photo Direction: North	
Coordinates: 32.039875, -103.675798	
Photo Description: View of the excavated area.	

Photographic Log



Photo Number: 11	
Date: 3/15/2022	
Photo Direction: Southwest	
Coordinates: 32.039784, -103.675357	
Photo Description:	
View of the excavated area.	

Photo Number: 12	
Date: 3/15/2022	
Photo Direction: Northwest	
Coordinates: 32.039612, -103.675372	
Photo Description:	
View of the excavated area.	

Photographic Log



Photo Number: 13	
Date: 3/15/2022	
Photo Direction: East	
Coordinates: 32.039855, -103.675144	
Photo Description:	
View of the excavated area.	

Photo Number: 14	
Date: 3/15/2022	
Photo Direction: East	
Coordinates: 32.039803, -103.674826	
Photo Description:	
View of the excavated area.	

Photographic Log



Photo Number: 15	
Date: 3/15/2022	
Photo Direction: East-Northeast	
Coordinates: 32.039531, -103.674077	
Photo Description:	
View of the excavated area.	

Photo Number: 16	
Date: 3/15/2022	
Photo Direction: West	
Coordinates: 32.039575, -103.673456	
Photo Description:	
View of the excavated area.	

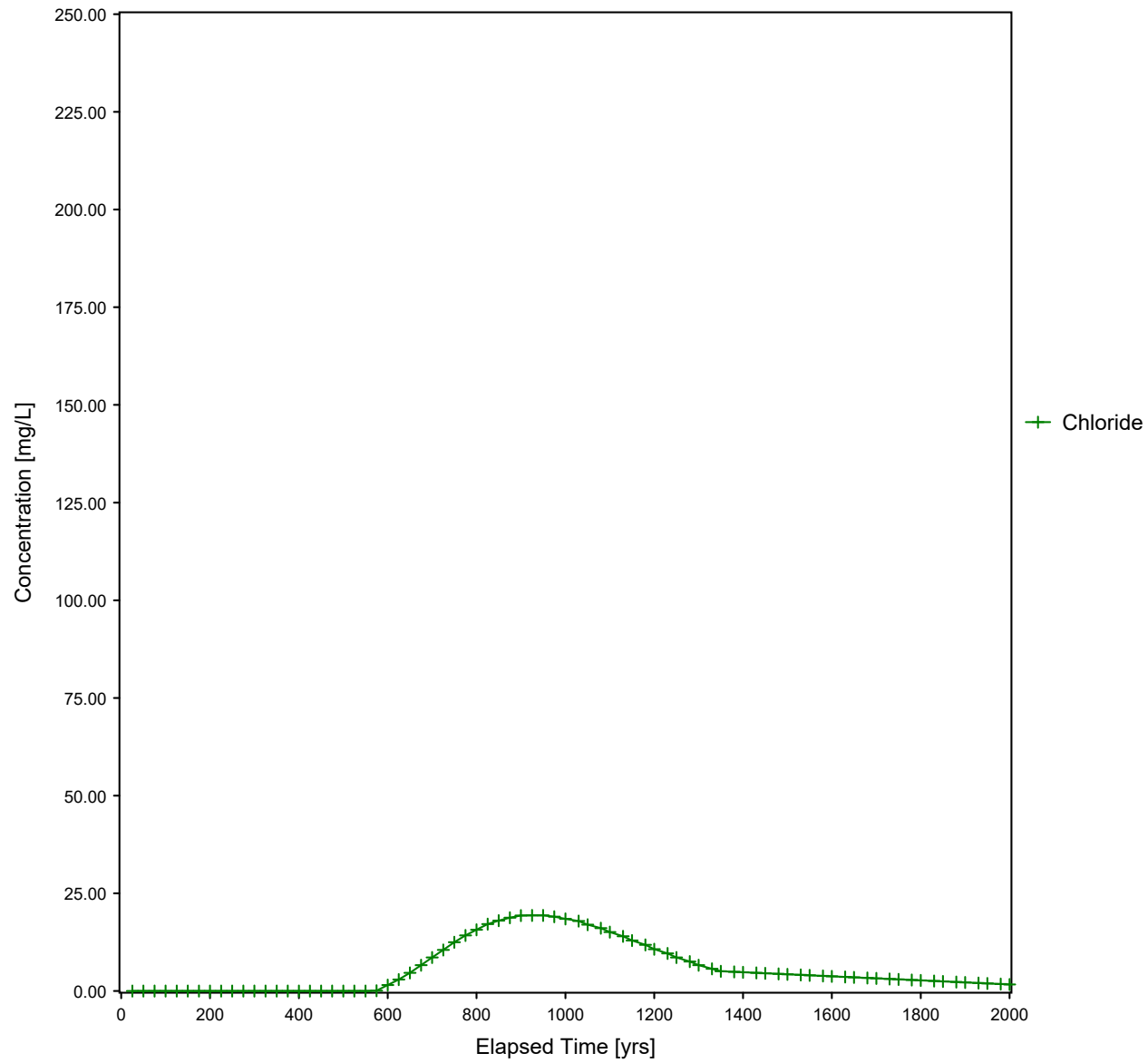
Appendix D

Multimedia Exposure Assessment Model (MULTIMED)

Excavation

Chloride Concentration at the Receptor Well (Lined Excavation)

Mewbourne Oil Company
Red Hills Recycle Pond Facility



U. S. ENVIRONMENTAL PROTECTION AGENCY
EXPOSURE ASSESSMENT
MULTIMEDIA MODEL

MULTIMED (Version 1.50, 2005)

Switched to Stehfest algorithm to avoid numerical problems
with Convolution algorithm. Problems were caused by
high source decay rate. Everything ok now, execution continuing...

Run options

Mt. Airy Oil Company
Red Hills Recycle Pond Facility

Chemical simulated is Chloride

Option Chosen
Run was Saturated and unsaturated zone models
DETERMIN
Infiltration Specified By User: 7.620E-03 m/yr
Run was transient
Well Times: Find Maximum Concentration
Reject runs if Y coordinate outside plume
Reject runs if Z coordinate outside plume
Gaussian source used in saturated zone model

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

NP	- Total number of nodal points	240
NMAT	- Number of different porous materials	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	31.70	1

Released to Imaging 3/18/2023 3:43:51 PM

Received by OCD: 4/19/2022 2:20:24 PM

DATA FOR MATERIAL 1

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	3.60	-999.	-999.	-999.
Unsaturated zone porosity	--	CONSTANT	0.250	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	0.700	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	31.7	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.

1

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

1

DATA FOR LAYER 1

VADOSE TRANSPORT VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Thickness of layer	m	CONSTANT	31.7	-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	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Solid phase decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.
Dissolved phase decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.
Overall chemical decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.
Acid catalyzed hydrolysis rate	1/M-yr	CONSTANT	0.000	-999.	-999.	-999.
Neutral hydrolysis rate constant	1/yr	CONSTANT	0.000	-999.	-999.	-999.
Base catalyzed hydrolysis rate	1/M-yr	CONSTANT	0.000	-999.	-999.	-999.
Reference temperature	C	CONSTANT	25.0	-999.	-999.	-999.
Normalized distribution coefficient	ml/g	CONSTANT	0.000	-999.	-999.	-999.
Distribution coefficient	--	DERIVED	-999.	-999.	-999.	-999.
Biodegradation coefficient (sat. zone)	1/yr	CONSTANT	0.000	-999.	-999.	-999.
Air diffusion coefficient	cm2/s	CONSTANT	-999.	-999.	-999.	-999.
Reference temperature for air diffusion	C	CONSTANT	-999.	-999.	-999.	-999.
Molecular weight	g/M	CONSTANT	-999.	-999.	-999.	-999.
Mole fraction of solute	--	CONSTANT	-999.	-999.	-999.	-999.
Vapor pressure of solute	mm Hg	CONSTANT	-999.	-999.	-999.	-999.
Henry's law constant	atm-m^3/M	CONSTANT	-999.	-999.	-999.	-999.
Overall 1st order decay sat. zone	1/yr	DERIVED	0.000	0.000	0.000	1.00
Not currently used		CONSTANT	0.000	0.000	0.000	0.000
Not currently used		CONSTANT	0.000	0.000	0.000	0.000

SOURCE SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Infiltration rate	m/yr	CONSTANT	0.762E-02	-999.	-999.	-999.
Area of waste disposal unit	m^2	CONSTANT	0.459E+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.
Source decay constant	1/yr	CONSTANT	0.250E-01	0.000	0.000	0.000
Initial concentration at landfill	mg/l	CONSTANT	0.128E+04	-999.	-999.	-999.

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

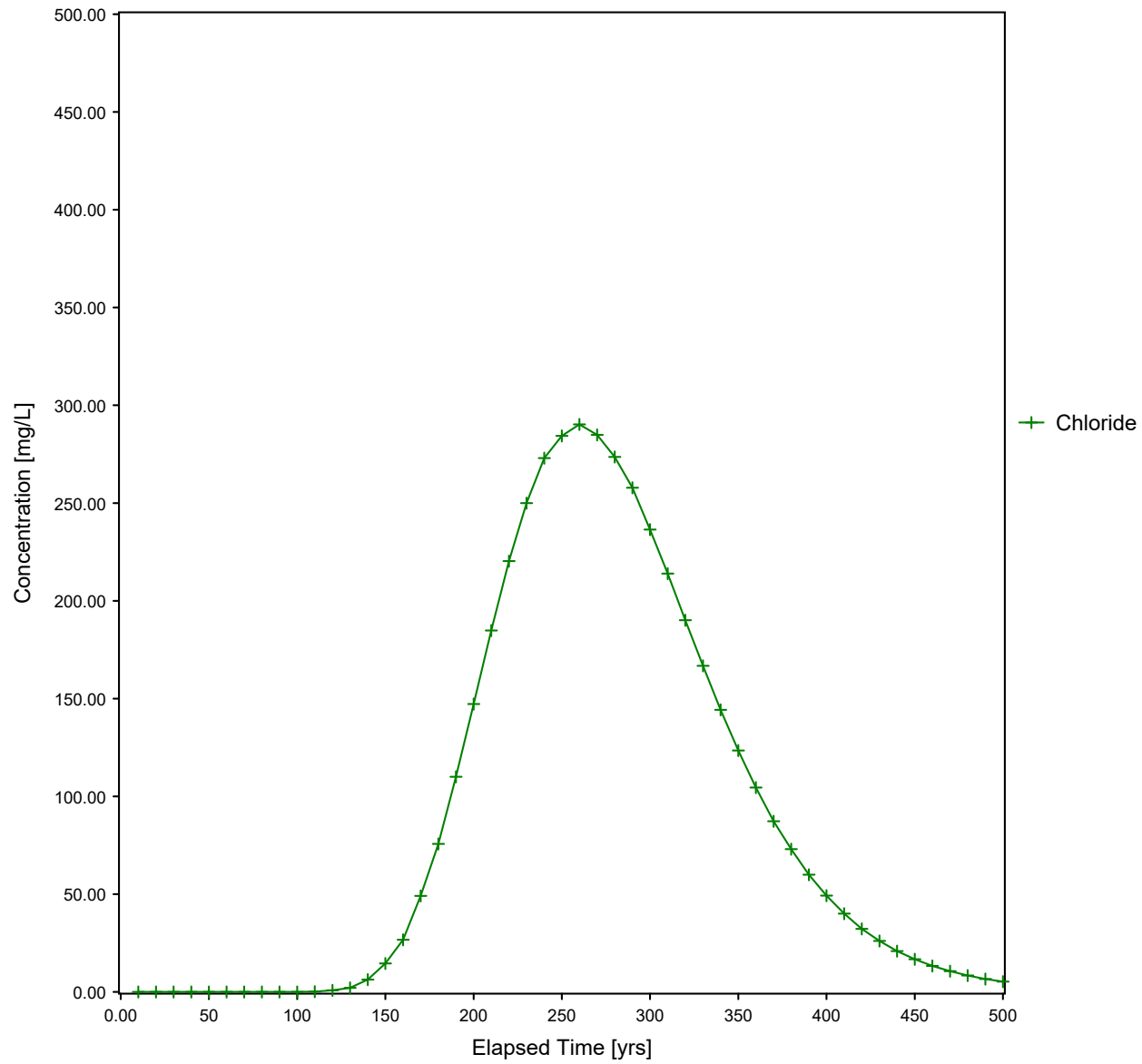
AQUIFER SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Particle diameter	cm	CONSTANT	-999.	-999.	-999.	-999.
Aquifer porosity	--	CONSTANT	0.300	-999.	-999.	-999.
Bulk density	g/cc	CONSTANT	1.86	-999.	-999.	-999.
Aquifer thickness	m	CONSTANT	6.10	-999.	-999.	-999.
Source thickness (mixing zone depth)	m	DERIVED	-999.	-999.	-999.	-999.
Conductivity (hydraulic)	m/yr	CONSTANT	315.	-999.	-999.	-999.
Gradient (hydraulic)		CONSTANT	0.300E-02	-999.	-999.	-999.
Groundwater seepage velocity	m/yr	DERIVED	-999.	-999.	-999.	-999.
Retardation coefficient	--	DERIVED	-999.	-999.	-999.	-999.
Longitudinal dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.
Transverse dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.
Vertical dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.
Temperature of aquifer	C	CONSTANT	20.0	-999.	-999.	-999.
pH	--	CONSTANT	7.00	-999.	-999.	-999.
Organic carbon content (fraction)		CONSTANT	0.000	-999.	-999.	-999.
Well distance from site	m	CONSTANT	1.00	-999.	-999.	-999.
Angle off center	degree	CONSTANT	0.000	-999.	-999.	-999.
Well vertical distance	m	CONSTANT	0.000	-999.	-999.	-999.

MAXIMUM WELL CONCENTRATION IS 19.38 AT 958 YEARS

Chloride Concentration at the Receptor Well (Unlined Excavation)

Mewbourne Oil Company
Red Hills Recycle Pond Facility



U. S. ENVIRONMENTAL PROTECTION AGENCY

EXPOSURE ASSESSMENT

MULTIMEDIA MODEL

MULTIMED (Version 1.50, 2005)

1
Run options

Mt. Airborne Oil Company
Red Hills Recycle Pond Facility
Chemical simulated is Chloride

Option Chosen
Run was Saturated and unsaturated zone models
DETERMIN
Infiltration Specified By User: 3.048E-02 m/yr
Run was transient
Well Times: Find Maximum Concentration
Reject runs if Y coordinate outside plume
Reject runs if Z coordinate outside plume
Gaussian source used in saturated zone model

1
1
UNSATURATED ZONE FLOW MODEL PARAMETERS
(input parameter description and value)
NP - Total number of nodal points 240
NMAT - Number of different porous materials 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

1
Layer information

LAYER NO. LAYER THICKNESS MATERIAL PROPERTY

1 31.70 1

DATA FOR MATERIAL 1

Released to Imaging: 5/18/2022 3:43:01 PM

Received by OCD: 4/19/2022 2:20:24 PM

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	3.60	-999.	-999.	-999.
Unsaturated zone porosity	--	CONSTANT	0.250	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	0.700	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	31.7	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.

1

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

1

DATA FOR LAYER 1

VADOSE TRANSPORT VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Thickness of layer	m	CONSTANT	31.7	-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	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Solid phase decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.
Dissolved phase decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.
Overall chemical decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.
Acid catalyzed hydrolysis rate	1/M-yr	CONSTANT	0.000	-999.	-999.	-999.
Neutral hydrolysis rate constant	1/yr	CONSTANT	0.000	-999.	-999.	-999.
Base catalyzed hydrolysis rate	1/M-yr	CONSTANT	0.000	-999.	-999.	-999.
Reference temperature	C	CONSTANT	25.0	-999.	-999.	-999.
Normalized distribution coefficient	ml/g	CONSTANT	0.000	-999.	-999.	-999.
Distribution coefficient	--	DERIVED	-999.	-999.	-999.	-999.
Biodegradation coefficient (sat. zone)	1/yr	CONSTANT	0.000	-999.	-999.	-999.
Air diffusion coefficient	cm ² /s	CONSTANT	-999.	-999.	-999.	-999.
Reference temperature for air diffusion	C	CONSTANT	-999.	-999.	-999.	-999.
Molecular weight	g/M	CONSTANT	-999.	-999.	-999.	-999.
Mole fraction of solute	--	CONSTANT	-999.	-999.	-999.	-999.
Vapor pressure of solute	mm Hg	CONSTANT	-999.	-999.	-999.	-999.
Henry's law constant	atm-m ³ /M	CONSTANT	-999.	-999.	-999.	-999.
Overall 1st order decay sat. zone	1/yr	DERIVED	0.000	0.000	0.000	1.00
Not currently used		CONSTANT	0.000	0.000	0.000	0.000
Not currently used		CONSTANT	0.000	0.000	0.000	0.000

SOURCE SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Infiltration rate	m/yr	CONSTANT	0.305E-01	-999.	-999.	-999.
Area of waste disposal unit	m ²	CONSTANT	0.459E+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.
Source decay constant	1/yr	CONSTANT	0.250E-01	0.000	0.000	0.000
Initial concentration at landfill	mg/l	CONSTANT	0.128E+04	-999.	-999.	-999.
Length scale of facility	m	DERIVED	-999.	-999.	-999.	-999.
Width scale of facility	m	DERIVED	-999.	-999.	-999.	-999.
Near field dilution		DERIVED	1.00	0.000	0.000	1.00

AQUIFER SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Particle diameter	cm	CONSTANT	-999.	-999.	-999.	-999.
Aquifer porosity	--	CONSTANT	0.300	-999.	-999.	-999.
Bulk density	g/cc	CONSTANT	1.86	-999.	-999.	-999.
Aquifer thickness	m	CONSTANT	6.10	-999.	-999.	-999.
Source thickness (mixing zone depth)	m	DERIVED	-999.	-999.	-999.	-999.
Conductivity (hydraulic)	m/yr	CONSTANT	315.	-999.	-999.	-999.
Gradient (hydraulic)		CONSTANT	0.300E-02	-999.	-999.	-999.
Groundwater seepage velocity	m/yr	DERIVED	-999.	-999.	-999.	-999.
Retardation coefficient	--	DERIVED	-999.	-999.	-999.	-999.
Longitudinal dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.
Transverse dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.
Vertical dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.
Temperature of aquifer	C	CONSTANT	20.0	-999.	-999.	-999.
pH	--	CONSTANT	7.00	-999.	-999.	-999.
Organic carbon content (fraction)		CONSTANT	0.000	-999.	-999.	-999.
Well distance from site	m	CONSTANT	1.00	-999.	-999.	-999.
Angle off center	degree	CONSTANT	0.000	-999.	-999.	-999.
Well vertical distance	m	CONSTANT	0.000	-999.	-999.	-999.

MAXIMUM WELL CONCENTRATION IS 291.1 AT 258 YEARS

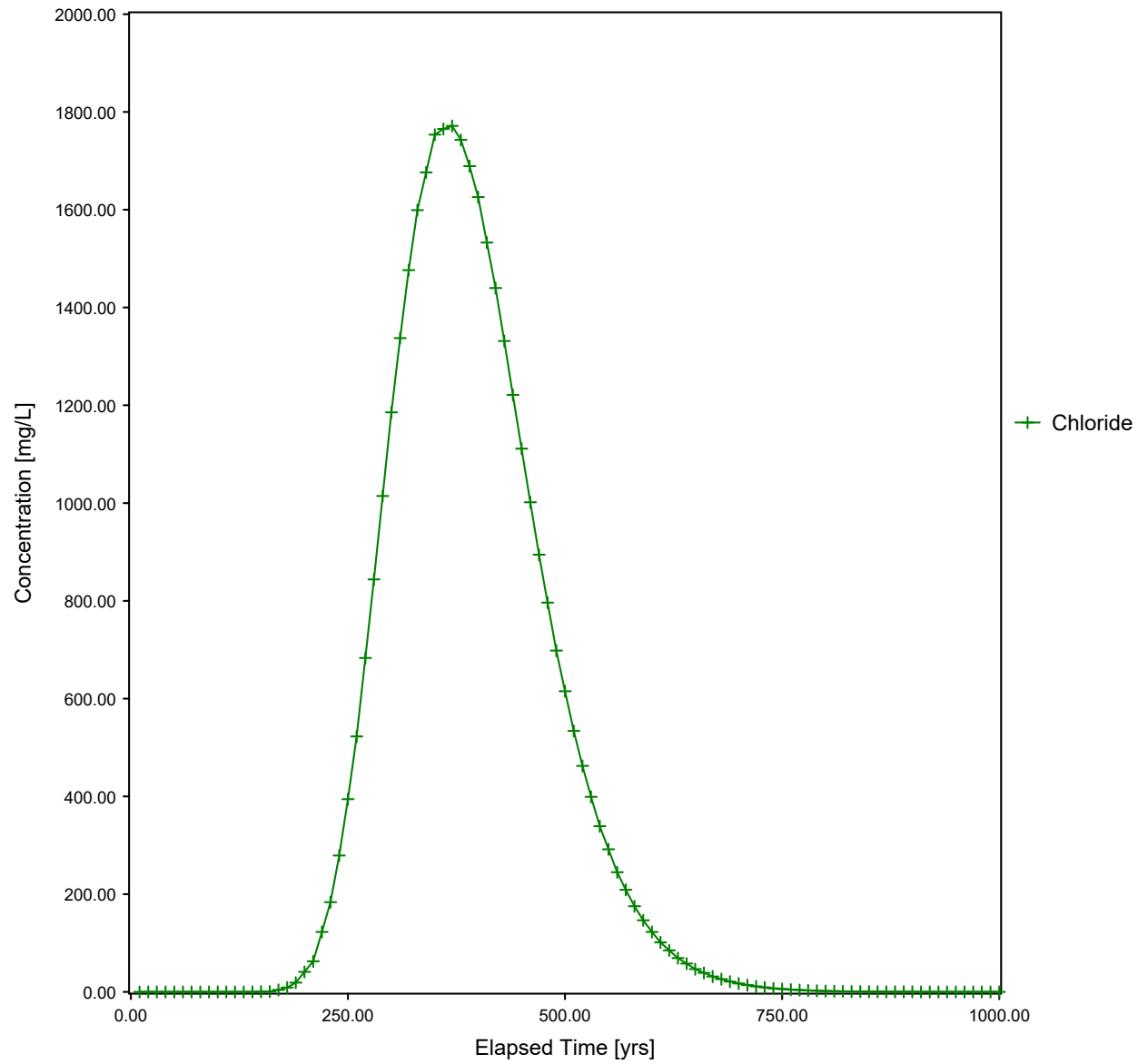
Appendix E

Multimedia Exposure Assessment Model (MULTIMED)

Deferral Area

Chloride Concentration at the Receptor Well (Deferred Area)

Mewbourne Oil Company
Red Hills Recycle Pond Facility



U. S. ENVIRONMENTAL PROTECTION AGENCY

EXPOSURE ASSESSMENT

MULTIMEDIA MODEL

MULTIMED (Version 1.50, 2005)

1
Run options

Mowbourn Oil Company
Red Hills Recycle Pond Facility
Chemical simulated is Chloride

Option Chosen
Run was Saturated and unsaturated zone models
DETERMIN
Infiltration Specified By User: 2.286E-02 m/yr
Run was transient
Well Times: Find Maximum Concentration
Reject runs if Y coordinate outside plume
Reject runs if Z coordinate outside plume
Gaussian source used in saturated zone model

1
1
UNSATURATED ZONE FLOW MODEL PARAMETERS
(input parameter description and value)
NP - Total number of nodal points 240
NMAT - Number of different porous materials 3
KPROP - Van Genuchten or Brooks and Corey 1
IMSHGN - Spatial discretization option 1
NVFLAYR - Number of layers in flow model 3

OPTIONS CHOSEN

Van Genuchten functional coefficients
User defined coordinate system

1
Layer information

LAYER NO. LAYER THICKNESS MATERIAL PROPERTY

1 33.00 1
2 2.50 2
3 0.50 3

DATA FOR MATERIAL 1

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	3.60	-999.	-999.	-999.
Unsaturated zone porosity	--	CONSTANT	0.250	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	0.700	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	36.0	0.000	0.000	0.000

DATA FOR MATERIAL 1

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Residual water content	--	CONSTANT	0.116	-999.	-999.	-999.
Brook and Corey exponent, EN	--	CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.500E-02	-999.	-999.	-999.
Van Genuchten exponent, ENN	--	CONSTANT	1.09	-999.	-999.	-999.

DATA FOR MATERIAL 2

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	0.140	-999.	-999.	-999.
Unsaturated zone porosity	--	CONSTANT	0.120	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	0.700	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	36.0	0.000	0.000	0.000

DATA FOR MATERIAL 2

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Residual water content	--	CONSTANT	0.116	-999.	-999.	-999.

Brook and Corey exponent,EN	--	CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.500E-02	-999.	-999.	-999.
Van Genuchten exponent, ENN	--	CONSTANT	1.09	-999.	-999.	-999.

DATA FOR MATERIAL 3

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	0.848E-03	-999.	-999.	-999.
Unsaturated zone porosity	--	CONSTANT	0.150	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	0.700	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	36.0	0.000	0.000	0.000

DATA FOR MATERIAL 3

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Residual water content	--	CONSTANT	0.116	-999.	-999.	-999.
Brook and Corey exponent,EN	--	CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.500E-03	-999.	-999.	-999.
Van Genuchten exponent, ENN	--	CONSTANT	1.09	-999.	-999.	-999.

UNSATURATED ZONE TRANSPORT MODEL PARAMETERS

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

OPTIONS CHOSEN

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

DATA FOR LAYER 1

VADOSE TRANSPORT VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Thickness of layer	m	CONSTANT	36.0	-999.	-999.	-999.
Longitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.
Percent organic matter	--	CONSTANT	0.000	-999.	-999.	-999.
Bulk density of soil for layer	g/cc	CONSTANT	1.99	-999.	-999.	-999.
Biological decay coefficient	1/yr	CONSTANT	0.000	-999.	-999.	-999.

CHEMICAL SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Solid phase decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.
Dissolved phase decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.
Overall chemical decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.
Acid catalyzed hydrolysis rate	1/M-yr	CONSTANT	0.000	-999.	-999.	-999.
Neutral hydrolysis rate constant	1/yr	CONSTANT	0.000	-999.	-999.	-999.
Base catalyzed hydrolysis rate	1/M-yr	CONSTANT	0.000	-999.	-999.	-999.
Reference temperature	C	CONSTANT	25.0	-999.	-999.	-999.
Normalized distribution coefficient	ml/g	CONSTANT	0.000	-999.	-999.	-999.
Distribution coefficient	--	DERIVED	-999.	-999.	-999.	-999.
Biodegradation coefficient (sat. zone)	1/yr	CONSTANT	0.000	-999.	-999.	-999.
Air diffusion coefficient	cm ² /s	CONSTANT	-999.	-999.	-999.	-999.
Reference temperature for air diffusion	C	CONSTANT	-999.	-999.	-999.	-999.
Molecular weight	g/M	CONSTANT	-999.	-999.	-999.	-999.
Mole fraction of solute	--	CONSTANT	-999.	-999.	-999.	-999.
Vapor pressure of solute	mm Hg	CONSTANT	-999.	-999.	-999.	-999.
Henry`s law constant	atm-m ³ /M	CONSTANT	-999.	-999.	-999.	-999.
Overall 1st order decay sat. zone	1/yr	DERIVED	0.000	0.000	0.000	1.00
Not currently used		CONSTANT	0.000	0.000	0.000	0.000
Not currently used		CONSTANT	0.000	0.000	0.000	0.000

SOURCE SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Infiltration rate	m/yr	CONSTANT	0.229E-01	-999.	-999.	-999.
Area of waste disposal unit	m ²	CONSTANT	0.241E+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.
Source decay constant	1/yr	CONSTANT	0.250E-01	0.000	0.000	0.000
Initial concentration at landfill	mg/l	CONSTANT	0.193E+05	-999.	-999.	-999.
Length scale of facility	m	DERIVED	-999.	-999.	-999.	-999.
Width scale of facility	m	DERIVED	-999.	-999.	-999.	-999.
Near field dilution		DERIVED	1.00	0.000	0.000	1.00

AQUIFER SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Particle diameter	cm	CONSTANT	-999.	-999.	-999.	-999.
Aquifer porosity	--	CONSTANT	0.300	-999.	-999.	-999.
Bulk density	g/cc	CONSTANT	1.86	-999.	-999.	-999.
Aquifer thickness	m	CONSTANT	6.10	-999.	-999.	-999.
Source thickness (mixing zone depth)	m	DERIVED	-999.	-999.	-999.	-999.
Conductivity (hydraulic)	m/yr	CONSTANT	315.	-999.	-999.	-999.
Gradient (hydraulic)		CONSTANT	0.300E-02	-999.	-999.	-999.
Groundwater seepage velocity	m/yr	DERIVED	-999.	-999.	-999.	-999.
Retardation coefficient	--	DERIVED	-999.	-999.	-999.	-999.
Longitudinal dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.
Transverse dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.
Vertical dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.
Temperature of aquifer	C	CONSTANT	20.0	-999.	-999.	-999.
pH	--	CONSTANT	7.00	-999.	-999.	-999.
Organic carbon content (fraction)		CONSTANT	0.000	-999.	-999.	-999.
Well distance from site	m	CONSTANT	1.00	-999.	-999.	-999.
Angle off center	degree	CONSTANT	0.000	-999.	-999.	-999.
Well vertical distance	m	CONSTANT	0.000	-999.	-999.	-999.

MAXIMUM WELL CONCENTRATION IS 1774. AT 374 YEARS

U. S. ENVIRONMENTAL PROTECTION AGENCY

EXPOSURE ASSESSMENT

MULTIMEDIA MODEL

MULTIMED (Version 1.50, 2005)

1
Run options

Mowbourne Oil Company
Red Hills Recycle Pond Facility
Chemical simulated is Chloride

Option Chosen
Run was Saturated and unsaturated zone models
DETERMIN
Infiltration Specified By User: 2.286E-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

1
1
UNSATURATED ZONE FLOW MODEL PARAMETERS
(input parameter description and value)
NP - Total number of nodal points 240
NMAT - Number of different porous materials 3
KPROP - Van Genuchten or Brooks and Corey 1
IMSHGN - Spatial discretization option 1
NVFLAYR - Number of layers in flow model 3

OPTIONS CHOSEN

Van Genuchten functional coefficients
User defined coordinate system

1
Layer information

LAYER NO.	LAYER THICKNESS	MATERIAL PROPERTY
1	33.00	1
2	2.50	2
3	0.50	3

DATA FOR MATERIAL 1

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	3.60	-999.	-999.	-999.
Unsaturated zone porosity	--	CONSTANT	0.250	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	0.700	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	36.0	0.000	0.000	0.000

DATA FOR MATERIAL 1

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Residual water content	--	CONSTANT	0.116	-999.	-999.	-999.
Brook and Corey exponent, EN	--	CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.500E-02	-999.	-999.	-999.
Van Genuchten exponent, ENN	--	CONSTANT	1.09	-999.	-999.	-999.

DATA FOR MATERIAL 2

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	0.140	-999.	-999.	-999.
Unsaturated zone porosity	--	CONSTANT	0.120	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	0.700	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	36.0	0.000	0.000	0.000

DATA FOR MATERIAL 2

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Residual water content	--	CONSTANT	0.116	-999.	-999.	-999.

Brook and Corey exponent,EN	--	CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.500E-02	-999.	-999.	-999.
Van Genuchten exponent, ENN	--	CONSTANT	1.09	-999.	-999.	-999.

DATA FOR MATERIAL 3

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	0.848E-03	-999.	-999.	-999.
Unsaturated zone porosity	--	CONSTANT	0.150	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	0.700	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	36.0	0.000	0.000	0.000

DATA FOR MATERIAL 3

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Residual water content	--	CONSTANT	0.116	-999.	-999.	-999.
Brook and Corey exponent,EN	--	CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.500E-03	-999.	-999.	-999.
Van Genuchten exponent, ENN	--	CONSTANT	1.09	-999.	-999.	-999.

1

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

1

DATA FOR LAYER 1

VADOSE TRANSPORT VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Thickness of layer	m	CONSTANT	36.0	-999.	-999.	-999.
Longitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.
Percent organic matter	--	CONSTANT	0.000	-999.	-999.	-999.
Bulk density of soil for layer	g/cc	CONSTANT	1.99	-999.	-999.	-999.
Biological decay coefficient	1/yr	CONSTANT	0.000	-999.	-999.	-999.

CHEMICAL SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Solid phase decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.
Dissolved phase decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.
Overall chemical decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.
Acid catalyzed hydrolysis rate	1/M-yr	CONSTANT	0.000	-999.	-999.	-999.
Neutral hydrolysis rate constant	1/yr	CONSTANT	0.000	-999.	-999.	-999.
Base catalyzed hydrolysis rate	1/M-yr	CONSTANT	0.000	-999.	-999.	-999.
Reference temperature	C	CONSTANT	25.0	-999.	-999.	-999.
Normalized distribution coefficient	ml/g	CONSTANT	0.000	-999.	-999.	-999.
Distribution coefficient	--	DERIVED	-999.	-999.	-999.	-999.
Biodegradation coefficient (sat. zone)	1/yr	CONSTANT	0.000	-999.	-999.	-999.
Air diffusion coefficient	cm2/s	CONSTANT	-999.	-999.	-999.	-999.
Reference temperature for air diffusion	C	CONSTANT	-999.	-999.	-999.	-999.
Molecular weight	g/M	CONSTANT	-999.	-999.	-999.	-999.
Mole fraction of solute	--	CONSTANT	-999.	-999.	-999.	-999.
Vapor pressure of solute	mm Hg	CONSTANT	-999.	-999.	-999.	-999.
Henry`s law constant	atm-m^3/M	CONSTANT	-999.	-999.	-999.	-999.
Overall 1st order decay sat. zone	1/yr	DERIVED	0.000	0.000	0.000	1.00
Not currently used		CONSTANT	0.000	0.000	0.000	0.000
Not currently used		CONSTANT	0.000	0.000	0.000	0.000

SOURCE SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Infiltration rate	m/yr	CONSTANT	0.229E-01	-999.	-999.	-999.
Area of waste disposal unit	m^2	CONSTANT	0.241E+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.
Source decay constant	1/yr	CONSTANT	0.250E-01	0.000	0.000	0.000
Initial concentration at landfill	mg/l	CONSTANT	0.193E+05	-999.	-999.	-999.
Length scale of facility	m	DERIVED	-999.	-999.	-999.	-999.
Width scale of facility	m	DERIVED	-999.	-999.	-999.	-999.
Near field dilution		DERIVED	1.00	0.000	0.000	1.00

AQUIFER SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Particle diameter	cm	CONSTANT	-999.	-999.	-999.	-999.
Aquifer porosity	--	CONSTANT	0.300	-999.	-999.	-999.
Bulk density	g/cc	CONSTANT	1.86	-999.	-999.	-999.
Aquifer thickness	m	CONSTANT	6.10	-999.	-999.	-999.
Source thickness (mixing zone depth)	m	DERIVED	-999.	-999.	-999.	-999.
Conductivity (hydraulic)	m/yr	CONSTANT	315.	-999.	-999.	-999.
Gradient (hydraulic)		CONSTANT	0.300E-02	-999.	-999.	-999.
Groundwater seepage velocity	m/yr	DERIVED	-999.	-999.	-999.	-999.
Retardation coefficient	--	DERIVED	-999.	-999.	-999.	-999.
Longitudinal dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.
Transverse dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.
Vertical dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.
Temperature of aquifer	C	CONSTANT	20.0	-999.	-999.	-999.
pH	--	CONSTANT	7.00	-999.	-999.	-999.
Organic carbon content (fraction)		CONSTANT	0.000	-999.	-999.	-999.
Well distance from site	m	CONSTANT	1.00	-999.	-999.	-999.
Angle off center	degree	CONSTANT	0.000	-999.	-999.	-999.
Well vertical distance	m	CONSTANT	0.000	-999.	-999.	-999.

TIME	CONCENTRATION
0.100E+02	0.00000E+00
0.200E+02	0.00000E+00
0.300E+02	0.00000E+00
0.400E+02	0.00000E+00
0.500E+02	0.00000E+00
0.600E+02	0.00000E+00
0.700E+02	0.00000E+00
0.800E+02	0.00000E+00
0.900E+02	0.00000E+00
0.100E+03	0.00000E+00
0.110E+03	0.00000E+00
0.120E+03	0.00000E+00
0.130E+03	0.00000E+00
0.140E+03	0.00000E+00
0.150E+03	0.49429E+00
0.160E+03	0.99038E+00
0.170E+03	0.42447E+01
0.180E+03	0.89503E+01
0.190E+03	0.19049E+02

0.200E+03	0.40927E+02
0.210E+03	0.62804E+02
0.220E+03	0.12270E+03
0.230E+03	0.18365E+03
0.240E+03	0.27895E+03
0.250E+03	0.39428E+03
0.260E+03	0.52274E+03
0.270E+03	0.68325E+03
0.280E+03	0.84376E+03
0.290E+03	0.10144E+04
0.300E+03	0.11855E+04
0.310E+03	0.13373E+04
0.320E+03	0.14766E+04
0.330E+03	0.15993E+04
0.340E+03	0.16764E+04
0.350E+03	0.17536E+04
0.360E+03	0.17652E+04
0.370E+03	0.17716E+04
0.380E+03	0.17429E+04
0.390E+03	0.16892E+04
0.400E+03	0.16259E+04
0.410E+03	0.15329E+04
0.420E+03	0.14399E+04
0.430E+03	0.13314E+04
0.440E+03	0.12212E+04
0.450E+03	0.11113E+04
0.460E+03	0.10016E+04
0.470E+03	0.89443E+03
0.480E+03	0.79637E+03
0.490E+03	0.69832E+03
0.500E+03	0.61514E+03
0.510E+03	0.53401E+03
0.520E+03	0.46247E+03
0.530E+03	0.39916E+03
0.540E+03	0.33905E+03
0.550E+03	0.29188E+03
0.560E+03	0.24473E+03
0.570E+03	0.20900E+03
0.580E+03	0.17520E+03
0.590E+03	0.14657E+03
0.600E+03	0.12282E+03
0.610E+03	0.10145E+03
0.620E+03	0.84947E+02
0.630E+03	0.69230E+02
0.640E+03	0.57967E+02
0.650E+03	0.46731E+02
0.660E+03	0.39066E+02
0.670E+03	0.31551E+02
0.680E+03	0.26024E+02
0.690E+03	0.21076E+02
0.700E+03	0.17150E+02
0.710E+03	0.13936E+02
0.720E+03	0.11187E+02
0.730E+03	0.91249E+01
0.740E+03	0.72280E+01
0.750E+03	0.59184E+01

0.760E+03	0.46511E+01
0.770E+03	0.38025E+01
0.780E+03	0.29791E+01
0.790E+03	0.24192E+01
0.800E+03	0.19059E+01
0.810E+03	0.15227E+01
0.820E+03	0.12051E+01
0.830E+03	0.94623E+00
0.840E+03	0.75106E+00
0.850E+03	0.57829E+00
0.860E+03	0.45909E+00
0.870E+03	0.34557E+00
0.880E+03	0.27262E+00
0.890E+03	0.20022E+00
0.900E+03	0.15430E+00
0.910E+03	0.11054E+00
0.920E+03	0.79675E-01
0.930E+03	0.53342E-01
0.940E+03	0.32863E-01
0.950E+03	0.17080E-01
0.960E+03	0.36497E-02
0.970E+03	0.00000E+00
0.980E+03	0.00000E+00
0.990E+03	0.00000E+00
0.100E+04	0.00000E+00

Appendix F

Laboratory Analytical Reports



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

February 14, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS RECYCLE FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 02/10/22 15:49.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/10/2022
 Reported: 02/14/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/09/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 1 @ 12' (H220537-01)

BTX 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	02/13/2022	ND	1.84	92.0	2.00	9.98	QR-03
Toluene*	<0.050	0.050	02/13/2022	ND	1.85	92.7	2.00	9.19	
Ethylbenzene*	<0.050	0.050	02/13/2022	ND	1.88	94.1	2.00	8.65	
Total Xylenes*	<0.150	0.150	02/13/2022	ND	5.84	97.3	6.00	8.46	
Total BTX	<0.300	0.300	02/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	02/11/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2022	ND	201	101	200	1.08	
DRO >C10-C28*	<10.0	10.0	02/13/2022	ND	204	102	200	0.128	
EXT DRO >C28-C36	<10.0	10.0	02/13/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 116 % 59.5-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2022	Sampling Date:	02/09/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: FS 2 @ 13' (H220537-02)

BTX 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	02/13/2022	ND	1.84	92.0	2.00	9.98		
Toluene*	<0.050	0.050	02/13/2022	ND	1.85	92.7	2.00	9.19		
Ethylbenzene*	<0.050	0.050	02/13/2022	ND	1.88	94.1	2.00	8.65		
Total Xylenes*	<0.150	0.150	02/13/2022	ND	5.84	97.3	6.00	8.46		
Total BTX	<0.300	0.300	02/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/11/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2022	ND	201	101	200	1.08	
DRO >C10-C28*	<10.0	10.0	02/13/2022	ND	204	102	200	0.128	
EXT DRO >C28-C36	<10.0	10.0	02/13/2022	ND					

Surrogate: 1-Chlorooctane 127 % 66.9-136

Surrogate: 1-Chlorooctadecane 143 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/10/2022
 Reported: 02/14/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/09/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 4 @ 4' (H220537-03)

BTX 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	02/13/2022	ND	1.84	92.0	2.00	9.98	
Toluene*	<0.050	0.050	02/13/2022	ND	1.85	92.7	2.00	9.19	
Ethylbenzene*	<0.050	0.050	02/13/2022	ND	1.88	94.1	2.00	8.65	
Total Xylenes*	<0.150	0.150	02/13/2022	ND	5.84	97.3	6.00	8.46	
Total BTX	<0.300	0.300	02/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/11/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2022	ND	201	101	200	1.08	
DRO >C10-C28*	<10.0	10.0	02/13/2022	ND	204	102	200	0.128	
EXT DRO >C28-C36	<10.0	10.0	02/13/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/10/2022
 Reported: 02/14/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/09/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 1 (H220537-04)

BTX 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	02/13/2022	ND	1.84	92.0	2.00	9.98		
Toluene*	<0.050	0.050	02/13/2022	ND	1.85	92.7	2.00	9.19		
Ethylbenzene*	<0.050	0.050	02/13/2022	ND	1.88	94.1	2.00	8.65		
Total Xylenes*	<0.150	0.150	02/13/2022	ND	5.84	97.3	6.00	8.46		
Total BTX	<0.300	0.300	02/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/11/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2022	ND	201	101	200	1.08	
DRO >C10-C28*	<10.0	10.0	02/13/2022	ND	204	102	200	0.128	
EXT DRO >C28-C36	<10.0	10.0	02/13/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 122 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/10/2022
 Reported: 02/14/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/09/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 2 (H220537-05)

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	02/13/2022	ND	1.84	92.0	2.00	9.98		
Toluene*	<0.050	0.050	02/13/2022	ND	1.85	92.7	2.00	9.19		
Ethylbenzene*	<0.050	0.050	02/13/2022	ND	1.88	94.1	2.00	8.65		
Total Xylenes*	<0.150	0.150	02/13/2022	ND	5.84	97.3	6.00	8.46		
Total BTEX	<0.300	0.300	02/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/11/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2022	ND	201	101	200	1.08	
DRO >C10-C28*	<10.0	10.0	02/13/2022	ND	204	102	200	0.128	
EXT DRO >C28-C36	<10.0	10.0	02/13/2022	ND					

Surrogate: 1-Chlorooctane 137 % 66.9-136

Surrogate: 1-Chlorooctadecane 154 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/10/2022
 Reported: 02/14/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/09/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 3 (H220537-06)

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	02/13/2022	ND	1.84	92.0	2.00	9.98	
Toluene*	<0.050	0.050	02/13/2022	ND	1.85	92.7	2.00	9.19	
Ethylbenzene*	<0.050	0.050	02/13/2022	ND	1.88	94.1	2.00	8.65	
Total Xylenes*	<0.150	0.150	02/13/2022	ND	5.84	97.3	6.00	8.46	
Total BTEX	<0.300	0.300	02/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/11/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2022	ND	201	101	200	1.08	
DRO >C10-C28*	<10.0	10.0	02/13/2022	ND	204	102	200	0.128	
EXT DRO >C28-C36	<10.0	10.0	02/13/2022	ND					

Surrogate: 1-Chlorooctane 122 % 66.9-136

Surrogate: 1-Chlorooctadecane 136 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/10/2022
 Reported: 02/14/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/09/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 4 (H220537-07)

BTX 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	02/13/2022	ND	1.84	92.0	2.00	9.98		
Toluene*	<0.050	0.050	02/13/2022	ND	1.85	92.7	2.00	9.19		
Ethylbenzene*	<0.050	0.050	02/13/2022	ND	1.88	94.1	2.00	8.65		
Total Xylenes*	<0.150	0.150	02/13/2022	ND	5.84	97.3	6.00	8.46		
Total BTX	<0.300	0.300	02/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/11/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2022	ND	201	101	200	1.08	
DRO >C10-C28*	<10.0	10.0	02/13/2022	ND	204	102	200	0.128	
EXT DRO >C28-C36	<10.0	10.0	02/13/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 120 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2022	Sampling Date:	02/09/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: EW 1 (H220537-08)

BTX 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	02/13/2022	ND	1.84	92.0	2.00	9.98	
Toluene*	<0.050	0.050	02/13/2022	ND	1.85	92.7	2.00	9.19	
Ethylbenzene*	<0.050	0.050	02/13/2022	ND	1.88	94.1	2.00	8.65	
Total Xylenes*	<0.150	0.150	02/13/2022	ND	5.84	97.3	6.00	8.46	
Total BTX	<0.300	0.300	02/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/11/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2022	ND	201	101	200	1.08	
DRO >C10-C28*	<10.0	10.0	02/13/2022	ND	204	102	200	0.128	
EXT DRO >C28-C36	<10.0	10.0	02/13/2022	ND					

Surrogate: 1-Chlorooctane 100 % 66.9-136

Surrogate: 1-Chlorooctadecane 113 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2022	Sampling Date:	02/10/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: SW 1 (H220537-09)

BTX 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	02/13/2022	ND	1.84	92.0	2.00	9.98		
Toluene*	<0.050	0.050	02/13/2022	ND	1.85	92.7	2.00	9.19		
Ethylbenzene*	<0.050	0.050	02/13/2022	ND	1.88	94.1	2.00	8.65		
Total Xylenes*	<0.150	0.150	02/13/2022	ND	5.84	97.3	6.00	8.46		
Total BTX	<0.300	0.300	02/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/11/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2022	ND	201	101	200	1.08	
DRO >C10-C28*	206	10.0	02/13/2022	ND	204	102	200	0.128	
EXT DRO >C28-C36	57.8	10.0	02/13/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 125 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2022	Sampling Date:	02/10/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: SW 2 (H220537-10)

BTX 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	02/13/2022	ND	1.84	92.0	2.00	9.98		
Toluene*	<0.050	0.050	02/13/2022	ND	1.85	92.7	2.00	9.19		
Ethylbenzene*	<0.050	0.050	02/13/2022	ND	1.88	94.1	2.00	8.65		
Total Xylenes*	<0.150	0.150	02/13/2022	ND	5.84	97.3	6.00	8.46		
Total BTX	<0.300	0.300	02/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/11/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2022	ND	201	101	200	1.08	
DRO >C10-C28*	<10.0	10.0	02/13/2022	ND	204	102	200	0.128	
EXT DRO >C28-C36	<10.0	10.0	02/13/2022	ND					

Surrogate: 1-Chlorooctane 98.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

No Rush

**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: Lance Creashaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Address: P.O. Box 301				Company: Mowbourn																									
City: Lovington Hobbs		State: NM		Zip: 88240		Attn: Robbie Ruessels																							
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:		City:																							
Project #: 14966		Project Owner: Robbie Ruessels		State:		Zip:																							
Project Name: Red Hills Recycle Facility		Project Location: Mowbourn Oil Company		Phone #:		Fax #:																							
Sampler Name: Eric Mojica																													
FOR LAB USE ONLY				MATRIX				PRESERV.				SAMPLING																	
Lab I.D.		Sample I.D.		(GRAB OR (C)OMP. # CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / GEL:		OTHER :		DATE		TIME			
H220537																													
1		FS1012		C		✓												✓		✓		✓							
2		FS2013		C		✓												✓		✓		✓							
3		FS404		C		✓												✓		✓		✓							
4		NW1		C		✓												✓		✓		✓							
5		NW2		C		✓												✓		✓		✓							
6		NW3		C		✓												✓		✓		✓							
7		NW4		C		✓												✓		✓		✓							
8		EW1		C		✓												✓		✓		✓							
9		SW1		C		✓												✓		✓		✓							
10		SW2		C		✓												✓		✓		✓							

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Relinquished By: Eric Mojica	Date: 2-9-22 Time: 1549	Received By: Tamara Eldridge	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
			REMARKS:	
Delivered By: (Circle One) 3.6°C C-0.50			Sample Condition	
Sampler - UPS - Bus - Other: 3.1°C #113			Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
			CHECKED BY: (initials) ✓	

Please email results to pm@etechenv.com.

FORM-006
Revision 1.0

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



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

February 23, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS RECYCLE FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 02/17/22 16:35.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/17/2022
 Reported: 02/23/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/17/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 3 (H220637-01)

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	02/22/2022	ND	2.24	112	2.00	12.9	
Toluene*	0.159	0.050	02/22/2022	ND	2.22	111	2.00	13.5	
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.13	107	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.62	110	6.00	13.4	
Total BTEX	<0.300	0.300	02/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	96.0	16.0	02/21/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2022	ND	232	116	200	1.06	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	198	99.0	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 90.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/17/2022
 Reported: 02/23/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/17/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 4 (H220637-02)

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	02/22/2022	ND	2.24	112	2.00	12.9	
Toluene*	0.144	0.050	02/22/2022	ND	2.22	111	2.00	13.5	
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.13	107	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.62	110	6.00	13.4	
Total BTEX	<0.300	0.300	02/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	80.0	16.0	02/21/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2022	ND	232	116	200	1.06	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	198	99.0	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 88.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.7 % 59.5-142

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Analytical Results For:

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

Received: 02/17/2022
 Reported: 02/23/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/17/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 5 (H220637-03)

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	02/22/2022	ND	2.24	112	2.00	12.9	
Toluene*	0.096	0.050	02/22/2022	ND	2.22	111	2.00	13.5	
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.13	107	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.62	110	6.00	13.4	
Total BTEx	<0.300	0.300	02/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	02/21/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2022	ND	232	116	200	1.06	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	198	99.0	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 89.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.2 % 59.5-142

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/17/2022
 Reported: 02/23/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/17/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 6 (H220637-04)

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	02/22/2022	ND	2.24	112	2.00	12.9	
Toluene*	0.075	0.050	02/22/2022	ND	2.22	111	2.00	13.5	
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.13	107	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.62	110	6.00	13.4	
Total BTEx	<0.300	0.300	02/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	02/21/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2022	ND	232	116	200	1.06	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	198	99.0	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 86.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.0 % 59.5-142

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/17/2022
 Reported: 02/23/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/17/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 7 (H220637-05)

BTX 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	02/22/2022	ND	2.24	112	2.00	12.9	
Toluene*	<0.050	0.050	02/22/2022	ND	2.22	111	2.00	13.5	
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.13	107	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.62	110	6.00	13.4	
Total BTX	<0.300	0.300	02/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

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	02/21/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2022	ND	232	116	200	1.06	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	198	99.0	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 86.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.6 % 59.5-142

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Received: 02/17/2022
 Reported: 02/23/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/17/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 8 (H220637-06)

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	02/22/2022	ND	2.24	112	2.00	12.9	
Toluene*	0.057	0.050	02/22/2022	ND	2.22	111	2.00	13.5	
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.13	107	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.62	110	6.00	13.4	
Total BTEx	<0.300	0.300	02/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/21/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2022	ND	232	116	200	1.06	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	198	99.0	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 88.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.2 % 59.5-142

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Received: 02/17/2022
 Reported: 02/23/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/17/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 9 (H220637-07)

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	02/22/2022	ND	2.24	112	2.00	12.9		
Toluene*	0.129	0.050	02/22/2022	ND	2.22	111	2.00	13.5		
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.13	107	2.00	13.3		
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.62	110	6.00	13.4		
Total BTEx	<0.300	0.300	02/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	02/21/2022	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	02/21/2022	ND	232	116	200	1.06	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	198	99.0	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 89.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.1 % 59.5-142

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 02/17/2022
 Reported: 02/23/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/17/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 10 (H220637-08)

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	02/22/2022	ND	2.24	112	2.00	12.9	
Toluene*	0.200	0.050	02/22/2022	ND	2.22	111	2.00	13.5	
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.13	107	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.62	110	6.00	13.4	
Total BTEx	<0.300	0.300	02/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/21/2022	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	02/21/2022	ND	232	116	200	1.06	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	198	99.0	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 84.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.4 % 59.5-142

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Analytical Results For:

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Received: 02/17/2022
 Reported: 02/23/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/17/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 11 (H220637-09)

BTX 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	02/22/2022	ND	2.24	112	2.00	12.9	
Toluene*	<0.050	0.050	02/22/2022	ND	2.22	111	2.00	13.5	
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.13	107	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.62	110	6.00	13.4	
Total BTX	<0.300	0.300	02/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/21/2022	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	02/21/2022	ND	232	116	200	1.06	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	198	99.0	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 86.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.9 % 59.5-142

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Received: 02/17/2022
 Reported: 02/23/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/17/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 12 (H220637-10)

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	02/22/2022	ND	2.24	112	2.00	12.9	
Toluene*	0.115	0.050	02/22/2022	ND	2.22	111	2.00	13.5	
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.13	107	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.62	110	6.00	13.4	
Total BTEx	<0.300	0.300	02/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

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	02/21/2022	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	02/21/2022	ND	232	116	200	1.06	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	198	99.0	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 90.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.1 % 59.5-142

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Analytical Results For:

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Received: 02/17/2022
 Reported: 02/23/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/17/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 13 (H220637-11)

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	02/22/2022	ND	2.21	110	2.00	0.242	
Toluene*	0.163	0.050	02/22/2022	ND	2.19	109	2.00	0.128	
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.12	106	2.00	0.731	
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.58	110	6.00	0.649	
Total BTEx	<0.300	0.300	02/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	02/21/2022	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	02/21/2022	ND	232	116	200	1.06	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	198	99.0	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 89.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.5 % 59.5-142

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Analytical Results For:

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

Received: 02/17/2022
 Reported: 02/23/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/17/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 5 (H220637-12)

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	02/22/2022	ND	2.21	110	2.00	0.242	
Toluene*	0.051	0.050	02/22/2022	ND	2.19	109	2.00	0.128	
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.12	106	2.00	0.731	
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.58	110	6.00	0.649	
Total BTEX	<0.300	0.300	02/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

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	02/21/2022	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	02/21/2022	ND	232	116	200	1.06	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	198	99.0	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 91.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.2 % 59.5-142

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Analytical Results For:

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

Received:	02/17/2022	Sampling Date:	02/17/2022
Reported:	02/23/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: NW 6 (H220637-13)

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	02/22/2022	ND	2.21	110	2.00	0.242	
Toluene*	0.121	0.050	02/22/2022	ND	2.19	109	2.00	0.128	
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.12	106	2.00	0.731	
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.58	110	6.00	0.649	
Total BTEX	<0.300	0.300	02/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	02/21/2022	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	02/21/2022	ND	232	116	200	1.06	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	198	99.0	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 81.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.5 % 59.5-142

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Analytical Results For:

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

Received:	02/17/2022	Sampling Date:	02/17/2022
Reported:	02/23/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: NW 7 (H220637-14)

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	02/22/2022	ND	2.21	110	2.00	0.242	
Toluene*	0.140	0.050	02/22/2022	ND	2.19	109	2.00	0.128	
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.12	106	2.00	0.731	
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.58	110	6.00	0.649	
Total BTEX	<0.300	0.300	02/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	02/21/2022	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	02/21/2022	ND	232	116	200	1.06	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	198	99.0	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 79.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.3 % 59.5-142

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Analytical Results For:

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

Received: 02/17/2022
 Reported: 02/23/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/17/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 8 (H220637-15)

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	02/22/2022	ND	2.21	110	2.00	0.242	
Toluene*	0.067	0.050	02/22/2022	ND	2.19	109	2.00	0.128	
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.12	106	2.00	0.731	
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.58	110	6.00	0.649	
Total BTEX	<0.300	0.300	02/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	02/21/2022	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	02/21/2022	ND	232	116	200	1.06	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	198	99.0	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 84.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.7 % 59.5-142

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Analytical Results For:

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 2617 W MARLAND
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Received:	02/17/2022	Sampling Date:	02/17/2022
Reported:	02/23/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: NW 9 (H220637-16)

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	02/22/2022	ND	2.21	110	2.00	0.242		
Toluene*	0.070	0.050	02/22/2022	ND	2.19	109	2.00	0.128		
Ethylbenzene*	<0.050	0.050	02/22/2022	ND	2.12	106	2.00	0.731		
Total Xylenes*	<0.150	0.150	02/22/2022	ND	6.58	110	6.00	0.649		
Total BTEX	<0.300	0.300	02/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

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	02/21/2022	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	02/22/2022	ND	232	116	200	1.06	
DRO >C10-C28*	<10.0	10.0	02/22/2022	ND	198	99.0	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	02/22/2022	ND					

Surrogate: 1-Chlorooctane 88.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.8 % 59.5-142

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Analytical Results For:

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

Received: 02/17/2022
 Reported: 02/23/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/17/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 10 (H220637-17)

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	02/23/2022	ND	2.21	110	2.00	0.242	
Toluene*	0.135	0.050	02/23/2022	ND	2.19	109	2.00	0.128	
Ethylbenzene*	<0.050	0.050	02/23/2022	ND	2.12	106	2.00	0.731	
Total Xylenes*	<0.150	0.150	02/23/2022	ND	6.58	110	6.00	0.649	
Total BTEX	<0.300	0.300	02/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/21/2022	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	02/22/2022	ND	232	116	200	1.06	
DRO >C10-C28*	<10.0	10.0	02/22/2022	ND	198	99.0	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	02/22/2022	ND					

Surrogate: 1-Chlorooctane 87.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.5 % 59.5-142

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
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Received:	02/17/2022	Sampling Date:	02/17/2022
Reported:	02/23/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: NW 11 (H220637-18)

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	02/23/2022	ND	2.21	110	2.00	0.242	
Toluene*	0.116	0.050	02/23/2022	ND	2.19	109	2.00	0.128	
Ethylbenzene*	<0.050	0.050	02/23/2022	ND	2.12	106	2.00	0.731	
Total Xylenes*	<0.150	0.150	02/23/2022	ND	6.58	110	6.00	0.649	
Total BTEx	<0.300	0.300	02/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/21/2022	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	02/22/2022	ND	232	116	200	1.06	
DRO >C10-C28*	<10.0	10.0	02/22/2022	ND	198	99.0	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	02/22/2022	ND					

Surrogate: 1-Chlorooctane 87.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.7 % 59.5-142

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Analytical Results For:

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

Received: 02/17/2022
 Reported: 02/23/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/17/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 12 (H220637-19)

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	02/23/2022	ND	2.21	110	2.00	0.242		
Toluene*	0.087	0.050	02/23/2022	ND	2.19	109	2.00	0.128		
Ethylbenzene*	<0.050	0.050	02/23/2022	ND	2.12	106	2.00	0.731		
Total Xylenes*	<0.150	0.150	02/23/2022	ND	6.58	110	6.00	0.649		
Total BTEX	<0.300	0.300	02/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/21/2022	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	02/22/2022	ND	232	116	200	1.06	
DRO >C10-C28*	<10.0	10.0	02/22/2022	ND	198	99.0	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	02/22/2022	ND					

Surrogate: 1-Chlorooctane 87.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/17/2022
 Reported: 02/23/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/17/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 13 (H220637-20)

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	02/23/2022	ND	2.21	110	2.00	0.242	
Toluene*	0.169	0.050	02/23/2022	ND	2.19	109	2.00	0.128	
Ethylbenzene*	<0.050	0.050	02/23/2022	ND	2.12	106	2.00	0.731	
Total Xylenes*	<0.150	0.150	02/23/2022	ND	6.58	110	6.00	0.649	
Total BTEx	<0.300	0.300	02/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/21/2022	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	02/21/2022	ND	206	103	200	6.49	
DRO >C10-C28*	<10.0	10.0	02/21/2022	ND	193	96.6	200	7.38	
EXT DRO >C28-C36	<10.0	10.0	02/21/2022	ND					

Surrogate: 1-Chlorooctane 84.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

No Rush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1. f2

Page 23 of 24

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Lance Crenshaw Address: P.O. Box 301 City: Lovington Hobbs State: NM Zip: 88260-88240 Phone #: (575) 396-2378 Fax #: (575) 396-1429 Project #: 14966 Project Owner: Robbie Runnels Project Name: Red Hills Recycle Facility Project Location: Menbourne Oil Company Sampler Name: Eric Mojica				BILL TO P.O. #: Company: Menbourne Attn: Robbie Runnels Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST																								
FOR LAB USE ONLY		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		Chloride	TPH (8015M)	BTEX (8021B)																	
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE	ICE /0000t	OTHER :														DATE	TIME					
H220637																																
1	SW 3	C	I			✓				✓		2-17-22		✓	✓	✓																
2	SW 4	C	I			✓				✓				✓	✓	✓																
3	SW 5	C	I			✓				✓				✓	✓	✓																
4	SW 6	C	I			✓				✓				✓	✓	✓																
5	SW 7	C	I			✓				✓				✓	✓	✓																
6	SW 8	C	I			✓				✓				✓	✓	✓																
7	SW 9	C	I			✓				✓				✓	✓	✓																
8	SW 10	C	I			✓				✓				✓	✓	✓																
9	SW 11	C	I			✓				✓				✓	✓	✓																
10	SW 12	C	I			✓				✓				✓	✓	✓																

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Relinquished By:	Date: 2-17-22	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
<i>Eri Mojica</i>	Time: 1635	<i>Jamara Oldaker</i>	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			

Delivered By: (Circle One) 3.4° C - 0.5° C
 Sampler - UPS - Bus - Other: 2.9° C #113

Sample Condition
 Cool Intact
☒ Yes ☒ Yes
☐ No ☐ No

CHECKED BY:
 (Initials)
TJ

Please email results to pm@etechenv.com.



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

No Rush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

Page 24 of 24

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Lance Crenshaw Address: P.O. Box 301 City: Lovington, Hobbs State: NM Zip: 88240 Phone #: (575) 396-2378 Fax #: (575) 396-1429 Project #: 14966 Project Owner: Robbie Runnels Project Name: Red Hills Recycle Facility Project Location: Mowbourne Oil Company Sampler Name: Eric Mojica										BILL TO P.O. #: Company: Mowbourne Attn: Robbie Runnels Address: City: State: Zip: Phone #: Fax #:			ANALYSIS REQUEST									
FOR LAB USE ONLY										Chloride TPH (8015M) BTEX (8021B)												
Lab I.D. H270637		Sample I.D.		(G/RAB OR (C)OMP. # CONTAINERS		MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV. ACID/BASE ICE Cooled OTHER:		SAMPLING DATE TIME												
11		SW 13		C 1		✓		✓		2-17-22		✓										
12		NW 5		C 1		✓		✓		✓		✓										
13		NW 6		C 1		✓		✓		✓		✓										
14		NW 7		C 1		✓		✓		✓		✓										
15		NW 8		C 1		✓		✓		✓		✓										
16		NW 9		C 1		✓		✓		✓		✓										
17		NW 10		C 1		✓		✓		✓		✓										
18		NW 11		C 1		✓		✓		✓		✓										
19		NW 12		C 1		✓		✓		✓		✓										
20		NW 13		C 1		✓		✓		✓		✓										
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																						
Relinquished By: Eric Mojica Relinquished By:				Date: 2-17-22 Time: 1635 Date: Time:				Received By: Tamara Oldatkye Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS:										
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				3.4°C C-0.5°C 2.9°C #113				Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No				CHECKED BY: (Initials) T.O.										
Please email results to pm@etechenv.com.																						



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

February 28, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS RECYCLE FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 02/25/22 13:15.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/25/2022
 Reported: 02/28/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ SURFACE (H220744-01)

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	02/25/2022	ND	2.11	106	2.00	1.71	
Toluene*	<0.050	0.050	02/25/2022	ND	2.09	105	2.00	2.34	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.01	101	2.00	2.04	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.21	103	6.00	2.56	
Total BTEX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	2000	16.0	02/26/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2022	ND	177	88.5	200	0.407	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	193	96.7	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 100 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/25/2022	Sampling Date:	02/24/2022
Reported:	02/28/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: SP 1 @ 2' (H220744-02)

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	02/25/2022	ND	2.11	106	2.00	1.71	
Toluene*	<0.050	0.050	02/25/2022	ND	2.09	105	2.00	2.34	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.01	101	2.00	2.04	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.21	103	6.00	2.56	
Total BTEx	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	02/26/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2022	ND	177	88.5	200	0.407	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	193	96.7	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 94.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/25/2022
 Reported: 02/28/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ SURFACE (H220744-03)

BTX 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	02/25/2022	ND	2.11	106	2.00	1.71	
Toluene*	<0.050	0.050	02/25/2022	ND	2.09	105	2.00	2.34	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.01	101	2.00	2.04	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.21	103	6.00	2.56	
Total BTX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	02/26/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2022	ND	177	88.5	200	0.407	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	193	96.7	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 97.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/25/2022
 Reported: 02/28/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 20' (H220744-04)

BTX 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	02/25/2022	ND	2.11	106	2.00	1.71	
Toluene*	<0.050	0.050	02/25/2022	ND	2.09	105	2.00	2.34	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.01	101	2.00	2.04	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.21	103	6.00	2.56	
Total BTX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	02/26/2022	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	02/25/2022	ND	177	88.5	200	0.407	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	193	96.7	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 98.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/25/2022	Sampling Date:	02/24/2022
Reported:	02/28/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: SP 3 @ SURFACE (H220744-05)

BTX 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	02/25/2022	ND	2.11	106	2.00	1.71		
Toluene*	<0.050	0.050	02/25/2022	ND	2.09	105	2.00	2.34		
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.01	101	2.00	2.04		
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.21	103	6.00	2.56		
Total BTX	<0.300	0.300	02/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	02/26/2022	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	02/25/2022	ND	177	88.5	200	0.407	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	193	96.7	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 93.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.0 % 59.5-142

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Analytical Results For:

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

Received: 02/25/2022
 Reported: 02/28/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 14' (H220744-06)

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	02/25/2022	ND	2.11	106	2.00	1.71	
Toluene*	<0.050	0.050	02/25/2022	ND	2.09	105	2.00	2.34	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.01	101	2.00	2.04	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.21	103	6.00	2.56	
Total BTEx	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	02/26/2022	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	02/25/2022	ND	177	88.5	200	0.407	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	193	96.7	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 96.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.1 % 59.5-142

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 HOBBS NM, 88240
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Received:	02/25/2022	Sampling Date:	02/24/2022
Reported:	02/28/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: SP 4 @ SURFACE (H220744-07)

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	02/25/2022	ND	2.11	106	2.00	1.71	
Toluene*	<0.050	0.050	02/25/2022	ND	2.09	105	2.00	2.34	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.01	101	2.00	2.04	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.21	103	6.00	2.56	
Total BTEX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	02/26/2022	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	02/25/2022	ND	177	88.5	200	0.407	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	193	96.7	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

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Analytical Results For:

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 2617 W MARLAND
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Received:	02/25/2022	Sampling Date:	02/24/2022
Reported:	02/28/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: SP 4 @ 14' (H220744-08)

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	02/25/2022	ND	2.11	106	2.00	1.71	
Toluene*	<0.050	0.050	02/25/2022	ND	2.09	105	2.00	2.34	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.01	101	2.00	2.04	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.21	103	6.00	2.56	
Total BTEX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	02/26/2022	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	02/25/2022	ND	177	88.5	200	0.407	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	193	96.7	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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Received: 02/25/2022
 Reported: 02/28/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ SURFACE (H220744-09)

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	02/25/2022	ND	2.11	106	2.00	1.71		
Toluene*	<0.050	0.050	02/25/2022	ND	2.09	105	2.00	2.34		
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.01	101	2.00	2.04		
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.21	103	6.00	2.56		
Total BTEx	<0.300	0.300	02/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	02/26/2022	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	02/25/2022	ND	177	88.5	200	0.407	
DRO >C10-C28*	98.0	10.0	02/25/2022	ND	193	96.7	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 90.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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Received: 02/25/2022
 Reported: 02/28/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ 2' (H220744-10)

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	02/25/2022	ND	2.11	106	2.00	1.71	
Toluene*	<0.050	0.050	02/25/2022	ND	2.09	105	2.00	2.34	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.01	101	2.00	2.04	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.21	103	6.00	2.56	
Total BTEx	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/26/2022	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	02/25/2022	ND	177	88.5	200	0.407	
DRO >C10-C28*	13.9	10.0	02/25/2022	ND	193	96.7	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 93.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received:	02/25/2022	Sampling Date:	02/25/2022
Reported:	02/28/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: NH 1 @ SURFACE (H220744-11)

BTX 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	02/25/2022	ND	2.11	106	2.00	1.71	
Toluene*	<0.050	0.050	02/25/2022	ND	2.09	105	2.00	2.34	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.01	101	2.00	2.04	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.21	103	6.00	2.56	
Total BTX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	02/26/2022	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	02/25/2022	ND	177	88.5	200	0.407	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	193	96.7	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 113 % 59.5-142

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Analytical Results For:

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Received:	02/25/2022	Sampling Date:	02/25/2022
Reported:	02/28/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: NH 1 @ 1' (H220744-12)

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	02/25/2022	ND	2.11	106	2.00	1.71	
Toluene*	<0.050	0.050	02/25/2022	ND	2.09	105	2.00	2.34	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.01	101	2.00	2.04	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.21	103	6.00	2.56	
Total BTEx	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	02/26/2022	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	02/25/2022	ND	177	88.5	200	0.407	
DRO >C10-C28*	13.7	10.0	02/25/2022	ND	193	96.7	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 98.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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Analytical Results For:

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Received:	02/25/2022	Sampling Date:	02/25/2022
Reported:	02/28/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: NH 2 @ SURFACE (H220744-13)

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	02/25/2022	ND	2.11	106	2.00	1.71	
Toluene*	<0.050	0.050	02/25/2022	ND	2.09	105	2.00	2.34	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.01	101	2.00	2.04	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.21	103	6.00	2.56	
Total BTEx	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/26/2022	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	02/25/2022	ND	177	88.5	200	0.407	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	193	96.7	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

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Analytical Results For:

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 2617 W MARLAND
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Received:	02/25/2022	Sampling Date:	02/25/2022
Reported:	02/28/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: NH 2 @ 1' (H220744-14)

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	02/25/2022	ND	2.11	106	2.00	1.71	
Toluene*	<0.050	0.050	02/25/2022	ND	2.09	105	2.00	2.34	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.01	101	2.00	2.04	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.21	103	6.00	2.56	
Total BTEx	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	48.0	16.0	02/26/2022	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	02/25/2022	ND	177	88.5	200	0.407	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	193	96.7	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 59.5-142

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Analytical Results For:

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

Received:	02/25/2022	Sampling Date:	02/25/2022
Reported:	02/28/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: NH 3 @ SURFACE (H220744-15)

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	02/25/2022	ND	2.11	106	2.00	2.58		
Toluene*	<0.050	0.050	02/25/2022	ND	2.08	104	2.00	2.29		
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.08	104	2.00	2.69		
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.39	107	6.00	3.21		
Total BTEx	<0.300	0.300	02/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	02/26/2022	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	02/25/2022	ND	223	112	200	3.17	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	257	129	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 125 % 66.9-136

Surrogate: 1-Chlorooctadecane 127 % 59.5-142

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/25/2022	Sampling Date:	02/25/2022
Reported:	02/28/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: NH 3 @ 1' (H220744-16)

BTX 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	02/25/2022	ND	2.11	106	2.00	2.58	
Toluene*	<0.050	0.050	02/25/2022	ND	2.08	104	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.08	104	2.00	2.69	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.39	107	6.00	3.21	
Total BTX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	02/26/2022	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	02/25/2022	ND	223	112	200	3.17	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	257	129	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 124 % 66.9-136

Surrogate: 1-Chlorooctadecane 127 % 59.5-142

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Analytical Results For:

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Received: 02/25/2022
 Reported: 02/28/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EH 1 @ SURFACE (H220744-17)

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	02/26/2022	ND	2.11	106	2.00	2.58	
Toluene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.69	
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.39	107	6.00	3.21	
Total BTEx	<0.300	0.300	02/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	02/26/2022	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	02/25/2022	ND	223	112	200	3.17	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	257	129	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 120 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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Analytical Results For:

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 2617 W MARLAND
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Received:	02/25/2022	Sampling Date:	02/25/2022
Reported:	02/28/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: EH 1 @ 1' (H220744-18)

BTX 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	02/26/2022	ND	2.11	106	2.00	2.58	
Toluene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.69	
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.39	107	6.00	3.21	
Total BTX	<0.300	0.300	02/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	02/26/2022	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	02/26/2022	ND	223	112	200	3.17	
DRO >C10-C28*	<10.0	10.0	02/26/2022	ND	257	129	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	02/26/2022	ND					

Surrogate: 1-Chlorooctane 123 % 66.9-136

Surrogate: 1-Chlorooctadecane 125 % 59.5-142

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Analytical Results For:

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Received: 02/25/2022
 Reported: 02/28/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EH 2 @ SURFACE (H220744-19)

BTX 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	02/26/2022	ND	2.11	106	2.00	2.58	
Toluene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.69	
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.39	107	6.00	3.21	
Total BTX	<0.300	0.300	02/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	02/26/2022	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	02/26/2022	ND	223	112	200	3.17	
DRO >C10-C28*	<10.0	10.0	02/26/2022	ND	257	129	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	02/26/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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Analytical Results For:

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 Fax To:

Received:	02/25/2022	Sampling Date:	02/25/2022
Reported:	02/28/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: EH 2 @ 1' (H220744-20)

BTX 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	02/26/2022	ND	2.11	106	2.00	2.58	
Toluene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.69	
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.39	107	6.00	3.21	
Total BTX	<0.300	0.300	02/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	02/26/2022	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	02/26/2022	ND	223	112	200	3.17	
DRO >C10-C28*	<10.0	10.0	02/26/2022	ND	257	129	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	02/26/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

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Analytical Results For:

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Received:	02/25/2022	Sampling Date:	02/25/2022
Reported:	02/28/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: SH 1 @ SURFACE (H220744-21)

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	02/26/2022	ND	2.11	106	2.00	2.58		
Toluene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.29		
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.69		
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.39	107	6.00	3.21		
Total BTEx	<0.300	0.300	02/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	02/26/2022	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	02/26/2022	ND	223	112	200	3.17	
DRO >C10-C28*	<10.0	10.0	02/26/2022	ND	257	129	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	02/26/2022	ND					

Surrogate: 1-Chlorooctane 120 % 66.9-136

Surrogate: 1-Chlorooctadecane 122 % 59.5-142

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/25/2022	Sampling Date:	02/25/2022
Reported:	02/28/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: SH 1 @ 1' (H220744-22)

BTX 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	02/26/2022	ND	2.11	106	2.00	2.58	
Toluene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.69	
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.39	107	6.00	3.21	
Total BTX	<0.300	0.300	02/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	02/26/2022	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	02/26/2022	ND	223	112	200	3.17	
DRO >C10-C28*	<10.0	10.0	02/26/2022	ND	257	129	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	02/26/2022	ND					

Surrogate: 1-Chlorooctane 126 % 66.9-136

Surrogate: 1-Chlorooctadecane 127 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/25/2022
 Reported: 02/28/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SH 2 @ SURFACE (H220744-23)

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	02/26/2022	ND	2.11	106	2.00	2.58		
Toluene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.29		
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.69		
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.39	107	6.00	3.21		
Total BTEx	<0.300	0.300	02/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/26/2022	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	02/26/2022	ND	223	112	200	3.17	
DRO >C10-C28*	<10.0	10.0	02/26/2022	ND	257	129	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	02/26/2022	ND					

Surrogate: 1-Chlorooctane 123 % 66.9-136

Surrogate: 1-Chlorooctadecane 125 % 59.5-142

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Analytical Results For:

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

Received:	02/25/2022	Sampling Date:	02/25/2022
Reported:	02/28/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: SH 2 @ 1' (H220744-24)

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	02/26/2022	ND	2.11	106	2.00	2.58		
Toluene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.29		
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.69		
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.39	107	6.00	3.21		
Total BTEx	<0.300	0.300	02/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/26/2022	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	02/26/2022	ND	223	112	200	3.17	
DRO >C10-C28*	<10.0	10.0	02/26/2022	ND	257	129	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	02/26/2022	ND					

Surrogate: 1-Chlorooctane 122 % 66.9-136

Surrogate: 1-Chlorooctadecane 125 % 59.5-142

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Analytical Results For:

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

Received: 02/25/2022
 Reported: 02/28/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 02/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SH 3 @ SURFACE (H220744-25)

BTX 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	02/26/2022	ND	2.11	106	2.00	2.58	
Toluene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.69	
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.39	107	6.00	3.21	
Total BTX	<0.300	0.300	02/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	02/26/2022	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	02/26/2022	ND	223	112	200	3.17	
DRO >C10-C28*	<10.0	10.0	02/26/2022	ND	257	129	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	02/26/2022	ND					

Surrogate: 1-Chlorooctane 125 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 59.5-142

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Analytical Results For:

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

Received:	02/25/2022	Sampling Date:	02/25/2022
Reported:	02/28/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: SH 3 @ 1' (H220744-26)

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	02/26/2022	ND	2.11	106	2.00	2.58	
Toluene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.69	
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.39	107	6.00	3.21	
Total BTEX	<0.300	0.300	02/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	02/26/2022	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	02/26/2022	ND	223	112	200	3.17	
DRO >C10-C28*	<10.0	10.0	02/26/2022	ND	257	129	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	02/26/2022	ND					

Surrogate: 1-Chlorooctane 121 % 66.9-136

Surrogate: 1-Chlorooctadecane 124 % 59.5-142

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/25/2022	Sampling Date:	02/25/2022
Reported:	02/28/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: WH 1 @ SURFACE (H220744-27)

BTX 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	02/26/2022	ND	2.11	106	2.00	2.58	
Toluene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.69	
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.39	107	6.00	3.21	
Total BTX	<0.300	0.300	02/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/26/2022	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	02/26/2022	ND	223	112	200	3.17	
DRO >C10-C28*	<10.0	10.0	02/26/2022	ND	257	129	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	02/26/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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Analytical Results For:

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

Received:	02/25/2022	Sampling Date:	02/25/2022
Reported:	02/28/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: WH 1 @ 1' (H220744-28)

BTX 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	02/26/2022	ND	2.11	106	2.00	2.58	
Toluene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.69	
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.39	107	6.00	3.21	
Total BTX	<0.300	0.300	02/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/26/2022	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	02/26/2022	ND	223	112	200	3.17	
DRO >C10-C28*	<10.0	10.0	02/26/2022	ND	257	129	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	02/26/2022	ND					

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 116 % 59.5-142

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Analytical Results For:

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

Received:	02/25/2022	Sampling Date:	02/25/2022
Reported:	02/28/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: WH 2 @ SURFACE (H220744-29)

BTX 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	02/26/2022	ND	2.11	106	2.00	2.58	
Toluene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.69	
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.39	107	6.00	3.21	
Total BTX	<0.300	0.300	02/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	02/26/2022	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	02/26/2022	ND	223	112	200	3.17	
DRO >C10-C28*	<10.0	10.0	02/26/2022	ND	257	129	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	02/26/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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Analytical Results For:

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

Received:	02/25/2022	Sampling Date:	02/25/2022
Reported:	02/28/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: WH 2 @ 1' (H220744-30)

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	02/26/2022	ND	2.11	106	2.00	2.58	
Toluene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.08	104	2.00	2.69	
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.39	107	6.00	3.21	
Total BTEx	<0.300	0.300	02/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	02/26/2022	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	02/26/2022	ND	223	112	200	3.17	
DRO >C10-C28*	<10.0	10.0	02/26/2022	ND	257	129	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	02/26/2022	ND					

Surrogate: 1-Chlorooctane 111 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

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

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

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

Rush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 3

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Lance Crenshaw Address: P.O. Box 301 City: Livingston Hobbs State: NM Zip: 88200 88240 Phone #: (575) 396-2378 Fax #: (575) 396-1429 Project #: 14966 Project Owner: Robbie Runnels Project Name: Red Hills Recycle Facility Project Location: Mowbourne Oil Company Sampler Name: Eric Mojica				BILL TO P.O. #: Company: Mowbourne Attn: Robbie Runnels Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST												
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING		Chloride	TPH (8015M)	BTEX (8021B)								
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :											
4220744																				
1	SP1 @ Surf.	G	1			✓				✓			2-24-22		✓	✓	✓			
2	SP1 @ 2'	G	1			✓				✓					✓	✓	✓			
3	SP2 @ Surf.	G	1			✓				✓					✓	✓	✓			
4	SP2 @ 20'	G	1			✓				✓					✓	✓	✓			
5	SP3 @ Surf.	G	1			✓				✓					✓	✓	✓			
6	SP3 @ 14'	G	1			✓				✓					✓	✓	✓			
7	SP4 @ Surf.	G	1			✓				✓					✓	✓	✓			
8	SP4 @ 14'	G	1			✓				✓					✓	✓	✓			
9	SP6 @ Surf.	G	1			✓				✓					✓	✓	✓			
10	SP6 @ 2'	G	1			✓				✓					✓	✓	✓			

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Relinquished By: Eric Mojica Relinquished By:	Date: 2-24-22 Time: 1:35	Received By: Samara Elasker	Date: Time:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS:
---	---	---------------------------------------	------------------------------	---

Please email results to pm@etechenv.com.

Delivered By: (Circle One) 3.1 @ C-0.5 @ Sampler - UPS - Bus - Other: 2.6 @ #113	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) TO
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Rush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2-f3

Page 34 of 35

ARDINAL LABORATORIES
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Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																															
Project Manager: Lance Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																															
Address: P.O. Box 301				Company: Mowbourn																																			
City: Lovington Hobbs State: NM Zip: 88260-88240				Attn: Robbie Runnels																																			
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																																			
Project #: 14966 Project Owner: Robbie Runnels				City:																																			
Project Name: Red Hills Recycling Facility				State: Zip:																																			
Project Location: Mowbourn Oil Company				Phone #:																																			
Sampler Name: Eric Mojica				Fax #:																																			
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																													
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER		ACID/BASE		ICE / OTHER		DATE		TIME													
H220744				G		1																		2-25-22															
11 NH10S.f.				G		1																																	
12 NH10I				G		1																																	
13 NH20S.f.				G		1																																	
14 NH20I				G		1																																	
15 NH30S.f.				G		1																																	
16 NH30I				G		1																																	
17 EH10S.f.				G		1																																	
18 EH10I				G		1																																	
19 EH20S.f.				G		1																																	
20 EH20I				G		1																																	
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																							
Relinquished By: Eric Mojica				Date: 2-25-22 Time: 1315				Received By: Samara Oldaker				Phone Result: Yes No				Add'l Phone #:				Fax Result: Yes No				Add'l Fax #:				REMARKS:											
Relinquished By:				Date: Time:				Received By:				Please email results to pm@etechenv.com.																											
Delivered By: (Circle One) 3.1e C-0.5e				Sample Condition Cool Intact Yes Yes				CHECKED BY: (Initials) TO																															
Sampler - UPS - Bus - Other: 2.6e #113																																							



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Rush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3. + 3

Page 35 of 35

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																	
Project Manager: Lance Cranshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																																	
Address: P.O. Box 301				Company: Newbours																																					
City: Lovington Hobbs State: NM Zip: 88260-88240				Attn: Robbie Runnels																																					
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																																					
Project #: 14966 Project Owner: Robbie Runnels				City:																																					
Project Name: Red Hills Recycle Facility				State: Zip:																																					
Project Location: Newbours Oil Company				Phone #:																																					
Sampler Name: Eric Mojica				Fax #:																																					
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE		ICE / 0000		OTHER:		DATE		TIME													
H220744				G		1						✓										✓		✓		2-25-22				✓											
21		SH10S.f.		G		1						✓										✓		✓		✓															
32		SH1e1'		G		1						✓										✓		✓		✓															
23		SH20S.f.		G		1						✓										✓		✓		✓															
24		SH2e1'		G		1						✓										✓		✓		✓															
25		SH30S.f.		G		1						✓										✓		✓		✓															
26		SH3e1'		G		1						✓										✓		✓		✓															
27		WH10S.f.		G		1						✓										✓		✓		✓															
28		WH1e1'		G		1						✓										✓		✓		✓															
29		WH20S.f.		G		1						✓										✓		✓		✓															
30		WH2e1'		G		1						✓										✓		✓		✓															
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Relinquished By: Eric Mojica				Date: 2-25-22				Received By: Samora Aldrete				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																									
Relinquished By:				Time: 1315								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																									
				Date:				Received By:				REMARKS:																													
				Time:																																					
Delivered By: (Circle One) 3.12 C-0.50				Sample Condition				CHECKED BY:				Please email results to pm@etechenv.com.																													
Sampler - UPS - Bus - Other: 2.00 #113				Cool Intact				(Initials)																																	
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				To																																	



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

March 02, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS RECYCLE FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 03/01/22 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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/01/2022
 Reported: 03/02/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 03/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 21' (H220792-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/02/2022	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

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

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



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

March 15, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS RECYCLE FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 03/10/22 15:25.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/10/2022
 Reported: 03/15/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 03/09/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SW 1 - A (H220978-01)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2022	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	03/15/2022	ND	214	107	200	4.58	
EXT DRO >C28-C36	<10.0	10.0	03/15/2022	ND					
Surrogate: 1-Chlorooctane	100 %	66.9-136							
Surrogate: 1-Chlorooctadecane	115 %	59.5-142							

Sample ID: NW 14 (H220978-02)

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	03/14/2022	ND	1.94	97.2	2.00	9.42	
Toluene*	<0.050	0.050	03/14/2022	ND	1.94	96.9	2.00	9.85	
Ethylbenzene*	<0.050	0.050	03/14/2022	ND	1.94	96.8	2.00	9.98	
Total Xylenes*	<0.150	0.150	03/14/2022	ND	6.01	100	6.00	8.99	
Total BTEx	<0.300	0.300	03/14/2022	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	64.0	16.0	03/14/2022	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

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/10/2022
 Reported: 03/15/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 03/09/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: NW 14 (H220978-02)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2022	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	03/15/2022	ND	214	107	200	4.58	
EXT DRO >C28-C36	<10.0	10.0	03/15/2022	ND					
Surrogate: 1-Chlorooctane	95.1 %	66.9-136							
Surrogate: 1-Chlorooctadecane	111 %	59.5-142							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/10/2022	Sampling Date:	03/09/2022
Reported:	03/15/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

Sample ID: NW 15 (H220978-03)

BTX 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	03/14/2022	ND	1.94	97.2	2.00	9.42	
Toluene*	<0.050	0.050	03/14/2022	ND	1.94	96.9	2.00	9.85	
Ethylbenzene*	<0.050	0.050	03/14/2022	ND	1.94	96.8	2.00	9.98	
Total Xylenes*	<0.150	0.150	03/14/2022	ND	6.01	100	6.00	8.99	
Total BTX	<0.300	0.300	03/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	03/14/2022	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	03/15/2022	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	03/15/2022	ND	214	107	200	4.58	
EXT DRO >C28-C36	<10.0	10.0	03/15/2022	ND					

Surrogate: 1-Chlorooctane 95.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2022	Sampling Date:	03/09/2022
Reported:	03/15/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

Sample ID: NW 16 (H220978-04)

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	03/14/2022	ND	1.93	96.5	2.00	9.05		
Toluene*	<0.050	0.050	03/14/2022	ND	1.91	95.6	2.00	9.48		
Ethylbenzene*	<0.050	0.050	03/14/2022	ND	1.93	96.5	2.00	8.77		
Total Xylenes*	<0.150	0.150	03/14/2022	ND	5.99	99.8	6.00	8.65		
Total BTEx	<0.300	0.300	03/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	03/14/2022	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	03/15/2022	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	03/15/2022	ND	214	107	200	4.58	
EXT DRO >C28-C36	<10.0	10.0	03/15/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 122 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2022	Sampling Date:	03/09/2022
Reported:	03/15/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

Sample ID: NW 17 (H220978-05)

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	03/14/2022	ND	1.93	96.5	2.00	9.05		
Toluene*	<0.050	0.050	03/14/2022	ND	1.91	95.6	2.00	9.48		
Ethylbenzene*	<0.050	0.050	03/14/2022	ND	1.93	96.5	2.00	8.77		
Total Xylenes*	<0.150	0.150	03/14/2022	ND	5.99	99.8	6.00	8.65		
Total BTEX	<0.300	0.300	03/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	03/14/2022	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	03/15/2022	ND	201	101	200	4.45		
DRO >C10-C28*	<10.0	10.0	03/15/2022	ND	214	107	200	4.58		
EXT DRO >C28-C36	<10.0	10.0	03/15/2022	ND						

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 127 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2022	Sampling Date:	03/09/2022
Reported:	03/15/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

Sample ID: NW 18 (H220978-06)

BTX 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	03/14/2022	ND	1.93	96.5	2.00	9.05		
Toluene*	<0.050	0.050	03/14/2022	ND	1.91	95.6	2.00	9.48		
Ethylbenzene*	<0.050	0.050	03/14/2022	ND	1.93	96.5	2.00	8.77		
Total Xylenes*	<0.150	0.150	03/14/2022	ND	5.99	99.8	6.00	8.65		
Total BTX	<0.300	0.300	03/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	03/14/2022	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	03/15/2022	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	03/15/2022	ND	214	107	200	4.58	
EXT DRO >C28-C36	<10.0	10.0	03/15/2022	ND					

Surrogate: 1-Chlorooctane 99.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 115 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2022	Sampling Date:	03/09/2022
Reported:	03/15/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

Sample ID: SW 14 (H220978-07)

BTX 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	03/14/2022	ND	1.93	96.5	2.00	9.05		
Toluene*	<0.050	0.050	03/14/2022	ND	1.91	95.6	2.00	9.48		
Ethylbenzene*	<0.050	0.050	03/14/2022	ND	1.93	96.5	2.00	8.77		
Total Xylenes*	<0.150	0.150	03/14/2022	ND	5.99	99.8	6.00	8.65		
Total BTX	<0.300	0.300	03/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/14/2022	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	03/15/2022	ND	201	101	200	4.45		
DRO >C10-C28*	<10.0	10.0	03/15/2022	ND	214	107	200	4.58		
EXT DRO >C28-C36	<10.0	10.0	03/15/2022	ND						

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 124 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2022	Sampling Date:	03/09/2022
Reported:	03/15/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

Sample ID: SW 15 (H220978-08)

BTX 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	03/14/2022	ND	1.93	96.5	2.00	9.05		
Toluene*	<0.050	0.050	03/14/2022	ND	1.91	95.6	2.00	9.48		
Ethylbenzene*	<0.050	0.050	03/14/2022	ND	1.93	96.5	2.00	8.77		
Total Xylenes*	<0.150	0.150	03/14/2022	ND	5.99	99.8	6.00	8.65		
Total BTX	<0.300	0.300	03/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	03/14/2022	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	03/15/2022	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	03/15/2022	ND	214	107	200	4.58	
EXT DRO >C28-C36	<10.0	10.0	03/15/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 123 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2022	Sampling Date:	03/10/2022
Reported:	03/15/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

Sample ID: SW 16 (H220978-09)

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	03/14/2022	ND	1.93	96.5	2.00	9.05		
Toluene*	<0.050	0.050	03/14/2022	ND	1.91	95.6	2.00	9.48		
Ethylbenzene*	<0.050	0.050	03/14/2022	ND	1.93	96.5	2.00	8.77		
Total Xylenes*	<0.150	0.150	03/14/2022	ND	5.99	99.8	6.00	8.65		
Total BTEx	<0.300	0.300	03/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

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	03/14/2022	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	03/15/2022	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	03/15/2022	ND	214	107	200	4.58	
EXT DRO >C28-C36	<10.0	10.0	03/15/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

No Rush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

BILL TO				ANALYSIS REQUEST																	
Company Name: Etech Environmental & Safety Solutions, Inc.				P.O. #:																	
Project Manager: Lance Crenshaw				Company: Mawbourne																	
Address: P.O. Box 301				Attn: Robbie Runnels																	
City: Lovington		State: NM Zip: 89200		Address:																	
Phone #: (575) 396-2378		Fax #: (575) 396-1429		City:																	
Project #: 14966		Project Owner: Robbie Runnels		State:	Zip:																
Project Name: Red Hills Recycle Facility				Phone #:																	
Project Location: Mawbourne Oil Company				Fax #:																	
Sampler Name: Eric Mojica																					
FOR LAB USE ONLY				MATRIX	PRESERV.	SAMPLING															
Lab I.D.	Sample I.D.	# CONTAINERS	GROUNDCOVER WASTEWATER	SOIL OIL SLUDGE	OTHER :	DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)											
H220978																					
1 SWI-A		C	-	✓		3-9-22		✓													
2 NW14		C	-	✓				✓	✓	✓											
3 NW15		C	-	✓				✓	✓	✓											
4 NW16		C	-	✓				✓	✓	✓											
5 NW17		C	-	✓				✓	✓	✓											
6 NW18		C	-	✓				✓	✓	✓											
7 SW14		C	-	✓				✓	✓	✓											
8 SW15		C	-	✓				✓	✓	✓											
9 SW16		C	-	✓		3-10-22		✓	✓	✓											

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Inquired By: <i>Eric Mojica</i>	Date: 3-9-22 Time: 15:25	Received By: <i>Jodi Henson</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Inquired By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Printer - UPS - Bus - Other: #113			REMARKS:	
Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NO			CHECKED BY: <i>[Signature]</i>	

Please email results to pm@etechenv.com.

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



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

March 22, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS RECYCLE FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 03/16/22 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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/16/2022
 Reported: 03/22/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 03/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 2 (H221056-01)

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	03/21/2022	ND	2.10	105	2.00	1.78		
Toluene*	<0.050	0.050	03/21/2022	ND	2.10	105	2.00	1.73		
Ethylbenzene*	<0.050	0.050	03/21/2022	ND	2.01	101	2.00	1.44		
Total Xylenes*	<0.150	0.150	03/21/2022	ND	6.19	103	6.00	0.540		
Total BTEx	<0.300	0.300	03/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/21/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2022	ND	202	101	200	5.19	
DRO >C10-C28*	<10.0	10.0	03/19/2022	ND	238	119	200	16.7	
EXT DRO >C28-C36	<10.0	10.0	03/19/2022	ND					

Surrogate: 1-Chlorooctane 120 % 66.9-136

Surrogate: 1-Chlorooctadecane 149 % 59.5-142

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/16/2022
 Reported: 03/22/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 03/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 3 (H221056-02)

BTX 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	03/21/2022	ND	2.10	105	2.00	1.78	
Toluene*	<0.050	0.050	03/21/2022	ND	2.10	105	2.00	1.73	
Ethylbenzene*	<0.050	0.050	03/21/2022	ND	2.01	101	2.00	1.44	
Total Xylenes*	<0.150	0.150	03/21/2022	ND	6.19	103	6.00	0.540	
Total BTX	<0.300	0.300	03/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/21/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2022	ND	202	101	200	5.19	
DRO >C10-C28*	<10.0	10.0	03/19/2022	ND	238	119	200	16.7	
EXT DRO >C28-C36	<10.0	10.0	03/19/2022	ND					

Surrogate: 1-Chlorooctane 121 % 66.9-136

Surrogate: 1-Chlorooctadecane 150 % 59.5-142

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Analytical Results For:

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

Received: 03/16/2022
 Reported: 03/22/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 03/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 4 (H221056-03)

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	03/21/2022	ND	2.10	105	2.00	1.78	
Toluene*	<0.050	0.050	03/21/2022	ND	2.10	105	2.00	1.73	
Ethylbenzene*	<0.050	0.050	03/21/2022	ND	2.01	101	2.00	1.44	
Total Xylenes*	<0.150	0.150	03/21/2022	ND	6.19	103	6.00	0.540	
Total BTEx	<0.300	0.300	03/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/21/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2022	ND	202	101	200	5.19	
DRO >C10-C28*	<10.0	10.0	03/19/2022	ND	238	119	200	16.7	
EXT DRO >C28-C36	<10.0	10.0	03/19/2022	ND					

Surrogate: 1-Chlorooctane 117 % 66.9-136

Surrogate: 1-Chlorooctadecane 146 % 59.5-142

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Analytical Results For:

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

Received: 03/16/2022
 Reported: 03/22/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 03/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 5 (H221056-04)

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	03/21/2022	ND	2.13	107	2.00	2.29		
Toluene*	<0.050	0.050	03/21/2022	ND	2.12	106	2.00	2.13		
Ethylbenzene*	<0.050	0.050	03/21/2022	ND	2.11	106	2.00	1.64		
Total Xylenes*	<0.150	0.150	03/21/2022	ND	6.49	108	6.00	1.15		
Total BTEx	<0.300	0.300	03/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/21/2022	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	03/21/2022	ND	208	104	200	2.41	
DRO >C10-C28*	<10.0	10.0	03/21/2022	ND	199	99.7	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/21/2022	ND					

Surrogate: 1-Chlorooctane 94.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

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Analytical Results For:

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

Received:	03/16/2022	Sampling Date:	03/16/2022
Reported:	03/22/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: EW 6 (H221056-05)

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	03/21/2022	ND	2.13	107	2.00	2.29		
Toluene*	<0.050	0.050	03/21/2022	ND	2.12	106	2.00	2.13		
Ethylbenzene*	<0.050	0.050	03/21/2022	ND	2.11	106	2.00	1.64		
Total Xylenes*	<0.150	0.150	03/21/2022	ND	6.49	108	6.00	1.15		
Total BTEX	<0.300	0.300	03/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/21/2022	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	03/21/2022	ND	208	104	200	2.41	
DRO >C10-C28*	<10.0	10.0	03/21/2022	ND	199	99.7	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/21/2022	ND					

Surrogate: 1-Chlorooctane 93.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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Analytical Results For:

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

Received: 03/16/2022
 Reported: 03/22/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 03/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 6 (H221056-06)

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	03/21/2022	ND	2.13	107	2.00	2.29		
Toluene*	<0.050	0.050	03/21/2022	ND	2.12	106	2.00	2.13		
Ethylbenzene*	<0.050	0.050	03/21/2022	ND	2.11	106	2.00	1.64		
Total Xylenes*	<0.150	0.150	03/21/2022	ND	6.49	108	6.00	1.15		
Total BTEX	<0.300	0.300	03/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/21/2022	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	03/21/2022	ND	208	104	200	2.41	
DRO >C10-C28*	<10.0	10.0	03/21/2022	ND	199	99.7	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/21/2022	ND					

Surrogate: 1-Chlorooctane 92.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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Analytical Results For:

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Received:	03/16/2022	Sampling Date:	03/15/2022
Reported:	03/22/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: WW 7 (H221056-07)

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	03/21/2022	ND	2.13	107	2.00	2.29		
Toluene*	<0.050	0.050	03/21/2022	ND	2.12	106	2.00	2.13		
Ethylbenzene*	<0.050	0.050	03/21/2022	ND	2.11	106	2.00	1.64		
Total Xylenes*	<0.150	0.150	03/21/2022	ND	6.49	108	6.00	1.15		
Total BTEX	<0.300	0.300	03/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/21/2022	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	03/21/2022	ND	208	104	200	2.41	
DRO >C10-C28*	<10.0	10.0	03/21/2022	ND	199	99.7	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/21/2022	ND					

Surrogate: 1-Chlorooctane 97.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

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Analytical Results For:

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

Received: 03/16/2022
 Reported: 03/22/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 03/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 8 (H221056-08)

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	03/21/2022	ND	2.13	107	2.00	2.29		
Toluene*	<0.050	0.050	03/21/2022	ND	2.12	106	2.00	2.13		
Ethylbenzene*	<0.050	0.050	03/21/2022	ND	2.11	106	2.00	1.64		
Total Xylenes*	<0.150	0.150	03/21/2022	ND	6.49	108	6.00	1.15		
Total BTEX	<0.300	0.300	03/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/21/2022	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	03/21/2022	ND	208	104	200	2.41	
DRO >C10-C28*	<10.0	10.0	03/21/2022	ND	199	99.7	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/21/2022	ND					

Surrogate: 1-Chlorooctane 78.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.0 % 59.5-142

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Analytical Results For:

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

Received:	03/16/2022	Sampling Date:	03/15/2022
Reported:	03/22/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: SW 17 (H221056-09)

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	03/21/2022	ND	2.13	107	2.00	2.29		
Toluene*	<0.050	0.050	03/21/2022	ND	2.12	106	2.00	2.13		
Ethylbenzene*	<0.050	0.050	03/21/2022	ND	2.11	106	2.00	1.64		
Total Xylenes*	<0.150	0.150	03/21/2022	ND	6.49	108	6.00	1.15		
Total BTEx	<0.300	0.300	03/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/21/2022	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	03/21/2022	ND	208	104	200	2.41	
DRO >C10-C28*	<10.0	10.0	03/21/2022	ND	199	99.7	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/21/2022	ND					

Surrogate: 1-Chlorooctane 76.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.4 % 59.5-142

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/16/2022	Sampling Date:	03/16/2022
Reported:	03/22/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: SW 18 (H221056-10)

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	03/21/2022	ND	2.13	107	2.00	2.29	
Toluene*	<0.050	0.050	03/21/2022	ND	2.12	106	2.00	2.13	
Ethylbenzene*	<0.050	0.050	03/21/2022	ND	2.11	106	2.00	1.64	
Total Xylenes*	<0.150	0.150	03/21/2022	ND	6.49	108	6.00	1.15	
Total BTEx	<0.300	0.300	03/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	03/21/2022	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	03/21/2022	ND	208	104	200	2.41	
DRO >C10-C28*	<10.0	10.0	03/21/2022	ND	199	99.7	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/21/2022	ND					

Surrogate: 1-Chlorooctane 76.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



No Rush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 13 of 13

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

[illegible]



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

March 23, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS RECYCLE FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 03/18/22 15:25.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/18/2022
 Reported: 03/23/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 03/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DSP 1 @ SURFACE (H221096-01)

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	03/22/2022	ND	1.83	91.4	2.00	6.03	
Toluene*	<0.050	0.050	03/22/2022	ND	1.92	96.1	2.00	6.05	
Ethylbenzene*	<0.050	0.050	03/22/2022	ND	1.88	93.8	2.00	5.60	
Total Xylenes*	<0.150	0.150	03/22/2022	ND	5.86	97.6	6.00	5.13	
Total BTEX	<0.300	0.300	03/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	20800	16.0	03/21/2022	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	03/22/2022	ND	180	90.1	200	3.49	
DRO >C10-C28*	29.8	10.0	03/22/2022	ND	206	103	200	2.70	
EXT DRO >C28-C36	22.6	10.0	03/22/2022	ND					

Surrogate: 1-Chlorooctane 91.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/18/2022
 Reported: 03/23/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 03/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DSP 1 @ 1' (H221096-02)

BTX 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	03/22/2022	ND	1.83	91.4	2.00	6.03		
Toluene*	<0.050	0.050	03/22/2022	ND	1.92	96.1	2.00	6.05		
Ethylbenzene*	<0.050	0.050	03/22/2022	ND	1.88	93.8	2.00	5.60		
Total Xylenes*	<0.150	0.150	03/22/2022	ND	5.86	97.6	6.00	5.13		
Total BTX	<0.300	0.300	03/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/21/2022	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	03/22/2022	ND	180	90.1	200	3.49	
DRO >C10-C28*	<10.0	10.0	03/22/2022	ND	206	103	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	03/22/2022	ND					

Surrogate: 1-Chlorooctane 98.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 100 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/18/2022
 Reported: 03/23/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 03/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DSP 2 @ SURFACE (H221096-03)

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	03/22/2022	ND	1.83	91.4	2.00	6.03		
Toluene*	<0.050	0.050	03/22/2022	ND	1.92	96.1	2.00	6.05		
Ethylbenzene*	<0.050	0.050	03/22/2022	ND	1.88	93.8	2.00	5.60		
Total Xylenes*	<0.150	0.150	03/22/2022	ND	5.86	97.6	6.00	5.13		
Total BTEx	<0.300	0.300	03/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	26000	16.0	03/21/2022	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	03/22/2022	ND	180	90.1	200	3.49	
DRO >C10-C28*	1040	10.0	03/22/2022	ND	206	103	200	2.70	
EXT DRO >C28-C36	928	10.0	03/22/2022	ND					

Surrogate: 1-Chlorooctane 97.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 129 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/18/2022	Sampling Date:	03/18/2022
Reported:	03/23/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DSP 2 @ 1' (H221096-04)

BTX 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	03/22/2022	ND	1.83	91.4	2.00	6.03		
Toluene*	<0.050	0.050	03/22/2022	ND	1.92	96.1	2.00	6.05		
Ethylbenzene*	<0.050	0.050	03/22/2022	ND	1.88	93.8	2.00	5.60		
Total Xylenes*	<0.150	0.150	03/22/2022	ND	5.86	97.6	6.00	5.13		
Total BTX	<0.300	0.300	03/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/21/2022	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	03/22/2022	ND	180	90.1	200	3.49	
DRO >C10-C28*	18.4	10.0	03/22/2022	ND	206	103	200	2.70	
EXT DRO >C28-C36	18.2	10.0	03/22/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/18/2022
 Reported: 03/23/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 03/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DSP 3 @ SURFACE (H221096-05)

BTX 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	03/22/2022	ND	1.83	91.4	2.00	6.03		
Toluene*	<0.050	0.050	03/22/2022	ND	1.92	96.1	2.00	6.05		
Ethylbenzene*	<0.050	0.050	03/22/2022	ND	1.88	93.8	2.00	5.60		
Total Xylenes*	<0.150	0.150	03/22/2022	ND	5.86	97.6	6.00	5.13		
Total BTX	<0.300	0.300	03/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32800	16.0	03/21/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2022	ND	180	90.1	200	3.49	
DRO >C10-C28*	4700	10.0	03/22/2022	ND	206	103	200	2.70	
EXT DRO >C28-C36	1260	10.0	03/22/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 255 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/18/2022
 Reported: 03/23/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 03/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DSP 3 @ 8' (H221096-06)

BTX 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	03/22/2022	ND	1.83	91.4	2.00	6.03	
Toluene*	<0.050	0.050	03/22/2022	ND	1.92	96.1	2.00	6.05	
Ethylbenzene*	<0.050	0.050	03/22/2022	ND	1.88	93.8	2.00	5.60	
Total Xylenes*	<0.150	0.150	03/22/2022	ND	5.86	97.6	6.00	5.13	
Total BTX	<0.300	0.300	03/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	03/21/2022	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	03/22/2022	ND	180	90.1	200	3.49	
DRO >C10-C28*	<10.0	10.0	03/22/2022	ND	206	103	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	03/22/2022	ND					

Surrogate: 1-Chlorooctane 93.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/18/2022	Sampling Date:	03/18/2022
Reported:	03/23/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DSP 4 @ SURFACE (H221096-07)

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	03/22/2022	ND	1.83	91.4	2.00	6.03		
Toluene*	<0.050	0.050	03/22/2022	ND	1.92	96.1	2.00	6.05		
Ethylbenzene*	<0.050	0.050	03/22/2022	ND	1.88	93.8	2.00	5.60		
Total Xylenes*	<0.150	0.150	03/22/2022	ND	5.86	97.6	6.00	5.13		
Total BTEx	<0.300	0.300	03/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	54000	16.0	03/21/2022	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	03/22/2022	ND	180	90.1	200	3.49	
DRO >C10-C28*	232	10.0	03/22/2022	ND	206	103	200	2.70	
EXT DRO >C28-C36	104	10.0	03/22/2022	ND					

Surrogate: 1-Chlorooctane 97.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/18/2022	Sampling Date:	03/18/2022
Reported:	03/23/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DSP 4 @ 4' (H221096-08)

BTX 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	03/22/2022	ND	1.83	91.4	2.00	6.03		
Toluene*	<0.050	0.050	03/22/2022	ND	1.92	96.1	2.00	6.05		
Ethylbenzene*	<0.050	0.050	03/22/2022	ND	1.88	93.8	2.00	5.60		
Total Xylenes*	<0.150	0.150	03/22/2022	ND	5.86	97.6	6.00	5.13		
Total BTX	<0.300	0.300	03/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/21/2022	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	03/22/2022	ND	180	90.1	200	3.49	
DRO >C10-C28*	<10.0	10.0	03/22/2022	ND	206	103	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	03/22/2022	ND					

Surrogate: 1-Chlorooctane 90.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/18/2022	Sampling Date:	03/18/2022
Reported:	03/23/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DSP 5 @ SURFACE (H221096-09)

BTX 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	03/23/2022	ND	1.83	91.4	2.00	6.03	
Toluene*	<0.050	0.050	03/23/2022	ND	1.92	96.1	2.00	6.05	
Ethylbenzene*	<0.050	0.050	03/23/2022	ND	1.88	93.8	2.00	5.60	
Total Xylenes*	<0.150	0.150	03/23/2022	ND	5.86	97.6	6.00	5.13	
Total BTX	<0.300	0.300	03/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1330	16.0	03/21/2022	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	03/22/2022	ND	180	90.1	200	3.49	
DRO >C10-C28*	68.4	10.0	03/22/2022	ND	206	103	200	2.70	
EXT DRO >C28-C36	27.0	10.0	03/22/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 111 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/18/2022
 Reported: 03/23/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 03/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DSP 5 @ 8' (H221096-10)

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	03/23/2022	ND	1.83	91.4	2.00	6.03		
Toluene*	<0.050	0.050	03/23/2022	ND	1.92	96.1	2.00	6.05		
Ethylbenzene*	<0.050	0.050	03/23/2022	ND	1.88	93.8	2.00	5.60		
Total Xylenes*	<0.150	0.150	03/23/2022	ND	5.86	97.6	6.00	5.13		
Total BTEx	<0.300	0.300	03/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	03/21/2022	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	03/22/2022	ND	197	98.5	200	7.82	
DRO >C10-C28*	<10.0	10.0	03/22/2022	ND	197	98.3	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	03/22/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 111 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

No Rush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 13 of 13

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: P.O. Box 301				Company: Mewbourne																							
City: Lovington Hobbs State: NM Zip: 88240				Attn: Robbie Runnels																							
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																							
Project #: 14966 Project Owner: Robbie Runnels				City:																							
Project Name: Red Hills Recycle Facility				State: Zip:																							
Project Location: Mewbourne Oil Company				Phone #:																							
Sampler Name: Eric Mojica				Fax #:																							
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME													
H221096																											
1	DSP 1e surf.	G	1			✓				✓			3-18-22		✓	✓	✓										
2	DSP 1e 1'	G	1			✓				✓					✓	✓	✓										
3	DSP 2e surf.	G	1			✓				✓					✓	✓	✓										
4	DSP 2e 1'	G	1			✓				✓					✓	✓	✓										
5	DSP 3e surf.	G	1			✓				✓					✓	✓	✓										
6	DSP 3e 8'	G	1			✓				✓					✓	✓	✓										
7	DSP 4e surf.	G	1			✓				✓					✓	✓	✓										
8	DSP 4e 4'	G	1			✓				✓					✓	✓	✓										
9	DSP 5e surf.	G	1			✓				✓					✓	✓	✓										
10	DSP 5e 8'	G	1			✓				✓					✓	✓	✓										
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Relinquished By:		Date: 3-18-22		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		<p>REMARKS:</p> <p>Please email results to pm@etechenv.com.</p>																	
Eric Mojica		Time: 1525		[Signature]		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																			
Relinquished By:		Date:		Received By:																							
		Time:																									
Delivered By: (Circle One) 57°C - 0.5°C				Sample Condition				CHECKED BY:																			
Sampler - UPS - Bus - Other: 5.2°C #113				Cool Intact				(Initials)																			
				<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No				<p>TO.</p>															

FORM-006
Revision 1.0

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



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

March 24, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RED HILLS RECYCLE FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 03/21/22 14:50.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/21/2022
 Reported: 03/24/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 03/21/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DSP 6 @ SURFACE (H221108-01)

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	03/22/2022	ND	1.88	93.8	2.00	1.85		
Toluene*	<0.050	0.050	03/22/2022	ND	1.97	98.5	2.00	0.489		
Ethylbenzene*	<0.050	0.050	03/22/2022	ND	1.99	99.6	2.00	1.90		
Total Xylenes*	<0.150	0.150	03/22/2022	ND	6.17	103	6.00	1.61		
Total BTEX	<0.300	0.300	03/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	93600	16.0	03/22/2022	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	03/22/2022	ND	197	98.5	200	7.82	
DRO >C10-C28*	71.4	10.0	03/22/2022	ND	197	98.3	200	8.07	
EXT DRO >C28-C36	43.3	10.0	03/22/2022	ND					

Surrogate: 1-Chlorooctane 115 % 66.9-136

Surrogate: 1-Chlorooctadecane 123 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/21/2022
 Reported: 03/24/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 03/21/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DSP 6 @ 10' (H221108-02)

BTX 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	03/22/2022	ND	1.88	93.8	2.00	1.85	
Toluene*	<0.050	0.050	03/22/2022	ND	1.97	98.5	2.00	0.489	
Ethylbenzene*	<0.050	0.050	03/22/2022	ND	1.99	99.6	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/22/2022	ND	6.17	103	6.00	1.61	
Total BTX	<0.300	0.300	03/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	03/22/2022	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	03/22/2022	ND	197	98.5	200	7.82	
DRO >C10-C28*	<10.0	10.0	03/22/2022	ND	197	98.3	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	03/22/2022	ND					

Surrogate: 1-Chlorooctane 117 % 66.9-136

Surrogate: 1-Chlorooctadecane 120 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/21/2022	Sampling Date:	03/21/2022
Reported:	03/24/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DSP 7 @ SURFACE (H221108-03)

BTX 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	03/22/2022	ND	1.88	93.8	2.00	1.85		
Toluene*	<0.050	0.050	03/22/2022	ND	1.97	98.5	2.00	0.489		
Ethylbenzene*	<0.050	0.050	03/22/2022	ND	1.99	99.6	2.00	1.90		
Total Xylenes*	<0.150	0.150	03/22/2022	ND	6.17	103	6.00	1.61		
Total BTX	<0.300	0.300	03/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	26000	16.0	03/22/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2022	ND	197	98.5	200	7.82	
DRO >C10-C28*	689	10.0	03/22/2022	ND	197	98.3	200	8.07	
EXT DRO >C28-C36	456	10.0	03/22/2022	ND					

Surrogate: 1-Chlorooctane 111 % 66.9-136

Surrogate: 1-Chlorooctadecane 144 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/21/2022	Sampling Date:	03/21/2022
Reported:	03/24/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DSP 7 @ 14' (H221108-04)

BTX 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	03/22/2022	ND	1.88	93.8	2.00	1.85	
Toluene*	<0.050	0.050	03/22/2022	ND	1.97	98.5	2.00	0.489	
Ethylbenzene*	<0.050	0.050	03/22/2022	ND	1.99	99.6	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/22/2022	ND	6.17	103	6.00	1.61	
Total BTX	<0.300	0.300	03/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	03/22/2022	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	03/23/2022	ND	202	101	200	5.65	
DRO >C10-C28*	<10.0	10.0	03/23/2022	ND	206	103	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	03/23/2022	ND					

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/21/2022	Sampling Date:	03/21/2022
Reported:	03/24/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DSP 8 @ SURFACE (H221108-05)

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	03/22/2022	ND	1.88	93.8	2.00	1.85		
Toluene*	<0.050	0.050	03/22/2022	ND	1.97	98.5	2.00	0.489		
Ethylbenzene*	<0.050	0.050	03/22/2022	ND	1.99	99.6	2.00	1.90		
Total Xylenes*	<0.150	0.150	03/22/2022	ND	6.17	103	6.00	1.61		
Total BTEx	<0.300	0.300	03/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	78400	16.0	03/22/2022	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	03/23/2022	ND	202	101	200	5.65	
DRO >C10-C28*	11.0	10.0	03/23/2022	ND	206	103	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	03/23/2022	ND					

Surrogate: 1-Chlorooctane 121 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/21/2022
 Reported: 03/24/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 03/21/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DSP 8 @ 8' (H221108-06)

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	03/22/2022	ND	1.88	93.8	2.00	1.85		
Toluene*	<0.050	0.050	03/22/2022	ND	1.97	98.5	2.00	0.489		
Ethylbenzene*	<0.050	0.050	03/22/2022	ND	1.99	99.6	2.00	1.90		
Total Xylenes*	<0.150	0.150	03/22/2022	ND	6.17	103	6.00	1.61		
Total BTEx	<0.300	0.300	03/22/2022	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	272	16.0	03/22/2022	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	03/23/2022	ND	202	101	200	5.65	
DRO >C10-C28*	<10.0	10.0	03/23/2022	ND	206	103	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	03/23/2022	ND					

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 120 % 59.5-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/21/2022	Sampling Date:	03/21/2022
Reported:	03/24/2022	Sampling Type:	Soil
Project Name:	RED HILLS RECYCLE FACILITY	Sampling Condition:	Cool & Intact
Project Number:	14966	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DSP 9 @ SURFACE (H221108-07)

BTX 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	03/22/2022	ND	1.88	93.8	2.00	1.85		
Toluene*	<0.050	0.050	03/22/2022	ND	1.97	98.5	2.00	0.489		
Ethylbenzene*	<0.050	0.050	03/22/2022	ND	1.99	99.6	2.00	1.90		
Total Xylenes*	<0.150	0.150	03/22/2022	ND	6.17	103	6.00	1.61		
Total BTX	<0.300	0.300	03/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	49600	16.0	03/22/2022	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	03/23/2022	ND	202	101	200	5.65	
DRO >C10-C28*	<10.0	10.0	03/23/2022	ND	206	103	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	03/23/2022	ND					

Surrogate: 1-Chlorooctane 125 % 66.9-136

Surrogate: 1-Chlorooctadecane 134 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/21/2022
 Reported: 03/24/2022
 Project Name: RED HILLS RECYCLE FACILITY
 Project Number: 14966
 Project Location: MEWBOURNE

Sampling Date: 03/21/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DSP 9 @ 8' (H221108-08)

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	03/24/2022	ND	1.88	93.8	2.00	1.85		
Toluene*	<0.050	0.050	03/24/2022	ND	1.97	98.5	2.00	0.489		
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	1.99	99.6	2.00	1.90		
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.17	103	6.00	1.61		
Total BTEx	<0.300	0.300	03/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	03/22/2022	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	03/23/2022	ND	202	101	200	5.65	
DRO >C10-C28*	<10.0	10.0	03/23/2022	ND	206	103	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	03/23/2022	ND					

Surrogate: 1-Chlorooctane 111 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 59.5-142

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*=Accredited Analyte

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

No Rush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

Company Name: Etech Environmental & Safety Solutions, Inc.

Project Manager: Lance Crenshaw

Address: P.O. Box 301

City: Lovington Hobbs

State: NM Zip: 88240

Phone #: (575) 396-2378

Fax #: (575) 396-1429

Project #: 14966

Project Owner: Robbie Runnels

Project Name: Red Hills Recycle Facility

Project Location: Mimboune Oil Company

Sampler Name: Eric Mojica

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Mimboune

Attn: Robbie Runnels

Address:

City:

State: Zip:

Phone #:

Fax #:

Chloride

TPH (8015M)

BTEX (8021B)

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

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Relinquished By:

Eric Mojica

Date:

3-21-22

Appendix G

Regulatory Correspondence

From: [Ben Arguijo](#)
To: ["ocd.enviro@state.nm.us"](mailto:ocd.enviro@state.nm.us)
Cc: ["ocd.environmental@state.nm.us"](mailto:ocd.environmental@state.nm.us); [Lance Crenshaw](#); ["Robbie Runnels"](#); ["Connor Walker"](#); ["Hamlet, Robert, EMNRD"](#)
Subject: RE: nAPP2124632147 - Red Hills Recycle Pond Facility - Extension Request
Date: Thursday, January 27, 2022 3:15:00 PM
Attachments: [image001.png](#)

Dear NMOCD Environmental Bureau,

I am writing to check on the status of the extension request below regarding the work plan for the Red Hills Recycle Pond Facility release (nAPP2124632147). On behalf of Mewbourne Oil Company, I would also like to take this opportunity to request an additional extension until March 31, 2022, to allow Etech time to complete the site assessment, delineation of the release, and to devise an acceptable remediation proposal.

If you have any questions or need any additional information, please do not hesitate to contact me or Lance Crenshaw (lance@etechenv.com).

Thank you for your time and consideration.

Respectfully,
Ben J. Arguijo

Ben J. Arguijo
Project Manager



2507 79th St., Unit A
Lubbock, TX 79423-2211
(432) 813-1592

From: Ben Arguijo
Sent: Wednesday, December 22, 2021 5:08 PM
To: 'ocd.enviro@state.nm.us' <ocd.enviro@state.nm.us>
Cc: 'ocd.environmental@state.nm.us' <ocd.environmental@state.nm.us>; [Lance Crenshaw](#) <lance@etechenv.com>; 'Robbie Runnels' <rrunnels@mewbourne.com>
Subject: nAPP2124632147 - Red Hills Recycle Pond Facility - Extension Request

Dear NMOCD Environmental Bureau,

Mewbourne Oil Company (Mewbourne) contracted Etech Environmental & Safety Solutions, Inc. (Etech), on November 29, 2021, to assume remediation activities for the release known as the Red Hills Recycle Pond Facility (NMOCD Incident #nAPP2124632147) located in Lea County. Pursuant to NMOCD regulations, a work plan or closure report was due for the release on November 28, 2021.

An initial site assessment was performed by a third-party environmental contractor that is no longer affiliated with the site. Based on a review of the field data from that site assessment, the vertical extent of chloride contamination was adequately defined, but additional delineation is required to determine both the horizontal and vertical extent of TPH, BTEX, and chloride.

Due to our current workload and fluctuations in staffing levels as people have taken leave from work to spend time with loved ones this holiday season, Etech has not yet had an opportunity to conduct a complete delineation event at the site. In consideration of this, Etech, on behalf of Mewbourne, would like to request an extension until January 31, 2022, in order to allow us time to conduct a proper site assessment, fully delineate the release, and devise an appropriate remediation strategy to advance the site to an NMOCD-approved closure.

If you have any questions or need any additional information, please do not hesitate to contact me by phone or email.

Thank you for your time and consideration.

Respectfully,
Ben J. Arguijo

Ben J. Arguijo
Project Manager



2507 79th St., Unit A
Lubbock, TX 79423-2211
(432) 813-1592

From: [Hamlet, Robert, EMNRD](#)
To: [Ben Arguijo](#)
Cc: [Lance Crenshaw](#); [Robbie Runnels](#); [Connor Walker](#); [Bratcher, Mike, EMNRD](#); [Hensley, Chad, EMNRD](#); [Velez, Nelson, EMNRD](#); [Nobui, Jennifer, EMNRD](#)
Subject: (Extension Approval) RE: nAPP2124632147 - Red Hills Recycle Pond Facility
Date: Friday, January 28, 2022 10:42:34 AM
Attachments: [image003.png](#)

RE: Incident #**NAPP2124632147**

Ben,

Your request for an extension to **March 31st, 2022** is approved.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Ben Arguijo <bena@etechenv.com>
Sent: Thursday, January 27, 2022 2:17 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Cc: ocd.environmental@state.nm.us; Lance Crenshaw <lance@etechenv.com>; Robbie Runnels <rrunnels@mewbourne.com>; Connor Walker <cwalker@mewbourne.com>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Subject: [EXTERNAL] RE: nAPP2124632147 - Red Hills Recycle Pond Facility - Extension Request

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Dear NMOCD Environmental Bureau,

I am writing to check on the status of the extension request below regarding the work plan for the Red Hills Recycle Pond Facility release (nAPP2124632147). On behalf of Mewbourne Oil Company, I would also like to take this opportunity to request an additional extension until March 31, 2022, to allow Etech time to complete the site assessment, delineation of the release, and to devise an acceptable remediation proposal.

If you have any questions or need any additional information, please do not hesitate to contact me or Lance Crenshaw (lance@etechenv.com).

Thank you for your time and consideration.

Respectfully,
Ben J. Arguijo

Ben J. Arguijo
Project Manager



2507 79th St., Unit A
Lubbock, TX 79423-2211
(432) 813-1592

From: Ben Arguijo
Sent: Wednesday, December 22, 2021 5:08 PM
To: 'ocd.enviro@state.nm.us' <ocd.enviro@state.nm.us>
Cc: 'ocd.environmental@state.nm.us' <ocd.environmental@state.nm.us>; Lance Crenshaw <lance@etechenv.com>; 'Robbie Runnels' <rrunnels@mewbourne.com>
Subject: nAPP2124632147 - Red Hills Recycle Pond Facility - Extension Request

Dear NMOCD Environmental Bureau,

Mewbourne Oil Company (Mewbourne) contracted Etech Environmental & Safety Solutions, Inc. (Etech), on November 29, 2021, to assume remediation activities for the release known as the Red Hills Recycle Pond Facility (NMOCD Incident #nAPP2124632147) located in Lea County. Pursuant to NMOCD regulations, a work plan or closure report was due for the release on November 28, 2021.

An initial site assessment was performed by a third-party environmental contractor that is no longer affiliated with the site. Based on a review of the field data from that site assessment, the vertical extent of chloride contamination was adequately defined, but additional delineation is required to determine both the horizontal and vertical extent of TPH, BTEX, and chloride.

Due to our current workload and fluctuations in staffing levels as people have taken leave from work to spend time with loved ones this holiday season, Etech has not yet had an opportunity to conduct a complete delineation event at the site. In consideration of this, Etech, on behalf of Mewbourne, would like to request an extension until January 31, 2022, in order to allow us time to conduct a proper site assessment, fully delineate the release, and devise an appropriate remediation strategy to advance the site to an NMOCD-approved closure.

If you have any questions or need any additional information, please do not hesitate to contact me by phone or email.

Thank you for your time and consideration.

Respectfully,
Ben J. Arguijo

Ben J. Arguijo
Project Manager



2507 79th St., Unit A
Lubbock, TX 79423-2211
(432) 813-1592

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

CONDITIONS

Action 99907

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 99907
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions; liner installation approved. Deferral Request Approved. Going forward, please collect soil samples between 4 ft and total depth, to determine what is left in place and below the liner.	5/18/2022