

Incident ID	nAPP2218929337
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>125</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. EngineerSignature:  Date: 10/20/2022email: cwalker@mewbourne.com Telephone: (806)202-5281**OCD Only**Received by: Jocelyn Harimon Date: 10/20/2022

Incident ID	nAPP2218929337
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Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Connor Walker Title: Sr. Engineer
Signature:  Date: 10/20/2022
email: cwalker@mewbourne.com Telephone: (806)202-5281

OCD Only

Received by: Jocelyn Harimon Date: 10/20/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 01/19/2023
Printed Name: Jocelyn Harimon Title: Environmental Specialist

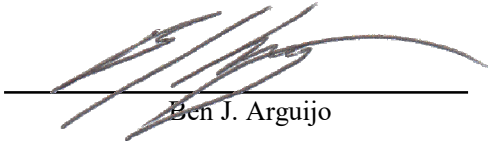
Remediation Summary & Soil Closure Request

Mewbourne Oil Company Zircon 12-7 GF SWD Line

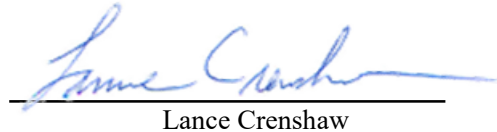
Eddy County, New Mexico
Unit Letter "F", Section 12, Township 19 South, Range 29 East
Latitude 32.6762830 North, Longitude 104.029918 West
NMOCD Reference No. nAPP2218929337

Prepared By:

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



Ben J. Arguijo



Lance Crenshaw



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Zircon 12-7 GF SWD Line. Details of the release are summarized below:

Location of Release Source

Latitude: 32.6762830 Longitude: -104.029918

Provided GPS are in WGS84 format.

Site Name:	Zircon 12-7 GF SWD Line	Site Type:	Pipeline
Date Release Discovered:	6/23/2022	API # (if applicable):	N/A

Unit Letter	Section	Township	Range	County
"F"	12	19S	29E	Eddy

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name _____)

Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 186	Volume Recovered (bbls) 0
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:

A poly flowline developed a split and failed.

Initial Response

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

Previously submitted portions of the NMOCD Form C-141 are available in the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Zircon 12-7 GF SWD Line 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?	125'			
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 Zircon 12-7 GF SWD Line release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
125'	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 REMEDIATION ACTIVITIES SUMMARY

On August 23, 2022, remediation activities commenced at the release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal extent of impacted soil and to guide the excavation. The sidewalls and floors of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis.

On August 25, 2022, Etech collected 12 confirmation soil samples (NW1, WW1, and FL 1 @ 6" through FL 10 @ 6") from the sidewalls and floor of the excavated area. The soil samples were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory method detection limit (MDL). Chloride concentrations ranged from 80.0 mg/kg in soil sample FL 6 @ 6" to 448 mg/kg in soil sample WW1.

On August 26, 2022, Etech collected four (4) confirmation soil samples (FL 11 @ 2', FL 12 @ 1.5', FL 13 @ 1', and FL 17 @ 6") from the floor 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 Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 80.0 mg/kg in soil sample FL 11 @ 2' to 528 mg/kg in soil sample FL 17 @ 6".

On August 30, 2022, Etech collected nine (9) confirmation soil samples (FL 14 @ 2', FL 15 @ 2.5', FL 16 @ 2', and FL 18 @ 2' through FL 23 @ 5') from the floor 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 Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 64.0 mg/kg in soil sample FL 19 @ 6" to 480 mg/kg in soil sample FL 23 @ 5'.

On August 31, 2022, Etech collected four (4) confirmation soil samples (FL 24 @ 5' through FL 27 @ 2') from the floor 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 Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 80.0 mg/kg in soil sample FL 27 @ 2' to 384 mg/kg in soil sample FL 24 @ 5'.

On September 1, 2022, Etech collected 10 confirmation soil samples (NW2 through NW5, EW1, WW2, WW3, FL 36 @ 2', FL 37 @ 2', FL 38 @ 2') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 48.0 mg/kg in soil sample FL 37 @ 2' to 352 mg/kg in soil sample FL 38 @ 2'.

On September 2, 2022, Etech collected seven (7) confirmation soil samples (FL 39 @ 6" through FL 45 @ 6") from the floor 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 Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil sample FL 44 @ 6" to 144 mg/kg in soil sample FL 39 @ 6".

On September 6, 2022, Etech collected 18 confirmation soil samples (EW2, FL 28 @ 2' through FL 35 @ 2', and FL 46 @ 6" through FL 54 @ 6") from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards 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 samples FL 29 @ 2', FL 31 @ 2', FL 35 @ 2', FL 46 @ 6" through FL 51 @ 6", and FL 53 @ 6" to 426 mg/kg in soil sample EW2. TPH concentrations in soil samples EW2, FL 28 @ 2', and FL 30 @ 2' exceeded the NMOCD Closure Criterion. Chloride concentrations ranged from 48.0 mg/kg in soil samples FL 48 @ 1.5' and FL 53 @ 6" to 272 mg/kg in soil samples FL 30 @ 2' and FL 46 @ 6".

On September 8, 2022, Etech collected 27 confirmation soil samples (SW1 through SW4, WW4, and FL 55 @ 6" through FL 76 @ 1.5') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards 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 samples SW1 through SW4, WW4, FL 55 @ 6" through FL 58 @ 6", FL 60 @ 6", FL 62 @ 6", FL 63 @ 6", FL 65 @ 6" through FL 74 @ 1.5', and FL 76 @ 1.5' to 135 mg/kg in soil sample FL 59 @ 6", which exceeded the NMOCD Closure Criterion. Chloride concentrations ranged from 48.0 mg/kg in soil sample FL 69 @ 1.5' to 448 mg/kg in soil sample FL 68 @ 6".

On September 12, 2022, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples EW2, FL 28 @ 2', and FL 30 @ 2'. Etech collected three (3) confirmation soil samples (EW2A, FL 28 @ 2.5', and FL 30 @ 2.5') from the sidewall and floor of the newly excavated area. The soil samples were submitted to the laboratory for analysis of TPH. Laboratory analytical results indicated TPH concentrations were less than the laboratory MDL in each of the submitted soil samples.

On September 13, 2022, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample FL 59 @ 6". Etech collected one (1) confirmation soil sample (FL 59 @ 1') from the floor of the newly excavated area. The soil sample was submitted to the laboratory for analysis of TPH. Laboratory analytical results indicated the TPH concentration was less than the laboratory MDL.

The final dimensions of the excavated area were approximately 292 feet in length, 22 to 204 feet in width, and six (6) inches to five (5) feet in depth. During the course of remediation activities, Etech transported approximately 1,280 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 1,320 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

Soil sample locations and the extent of the excavated area are depicted in Figure 3, "Site & Sample Location Map". 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 D.

5.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected area was compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas not on production pads 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.

6.0 SOIL CLOSURE 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 in-situ concentrations of BTEX, TPH, and chloride are below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Mewbourne Oil Company provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Zircon 12-7 GF SWD Line release site.

7.0 LIMITATIONS

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

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

8.0 DISTRIBUTION

Mewbourne Oil Company

4801 Business Park Blvd.

Hobbs, NM 88240

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2

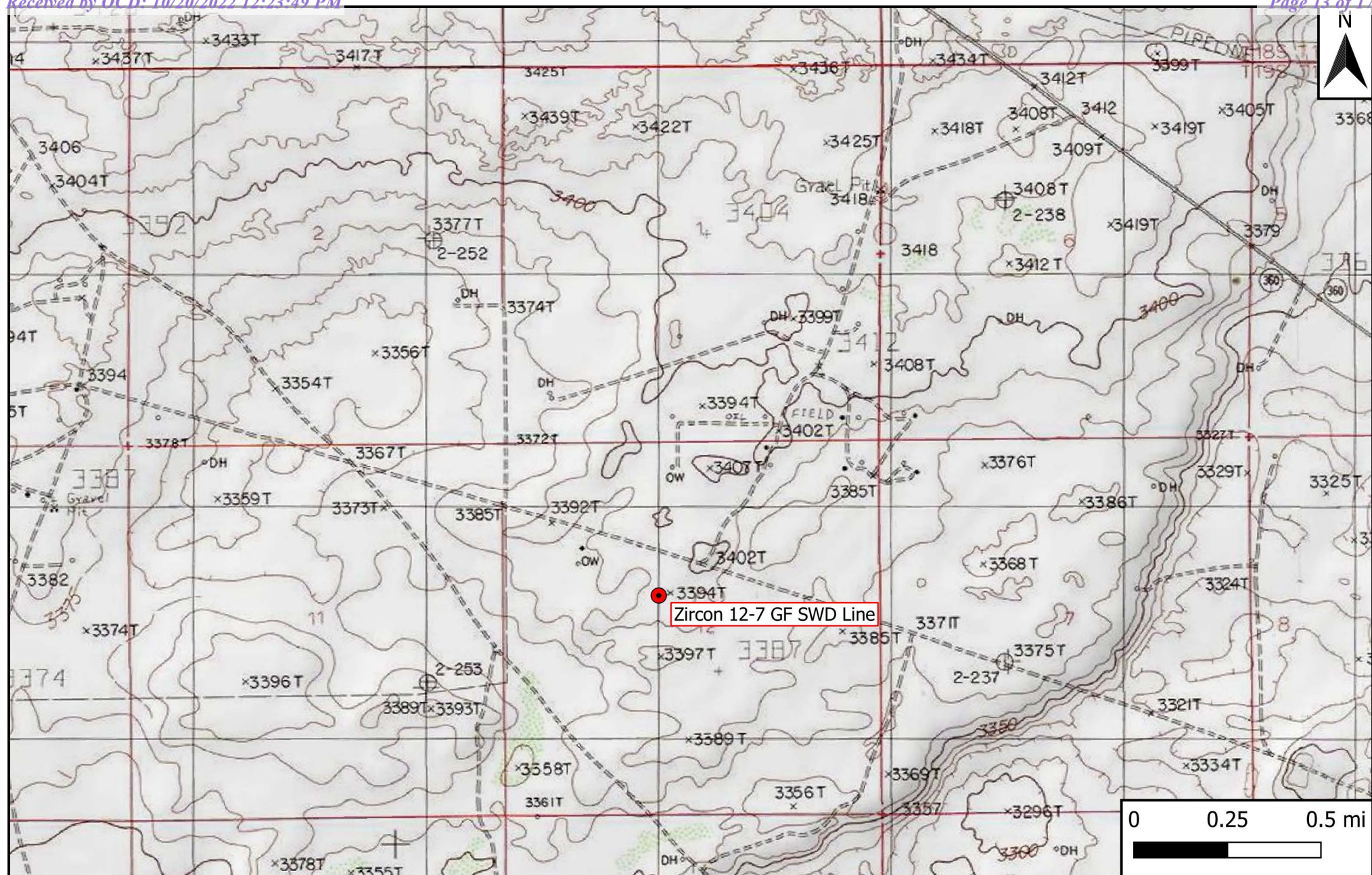
811 S. First Street

Artesia, NM 88210

(Electronic Submission)

Figure 1

Topographic Map



Legend

 Site Location

Figure 1
Topographic Map
Mewbourne Oil Company
Zircon 12-7 GF SWD Line
GPS: 32.676283, -104.029918
Eddy County



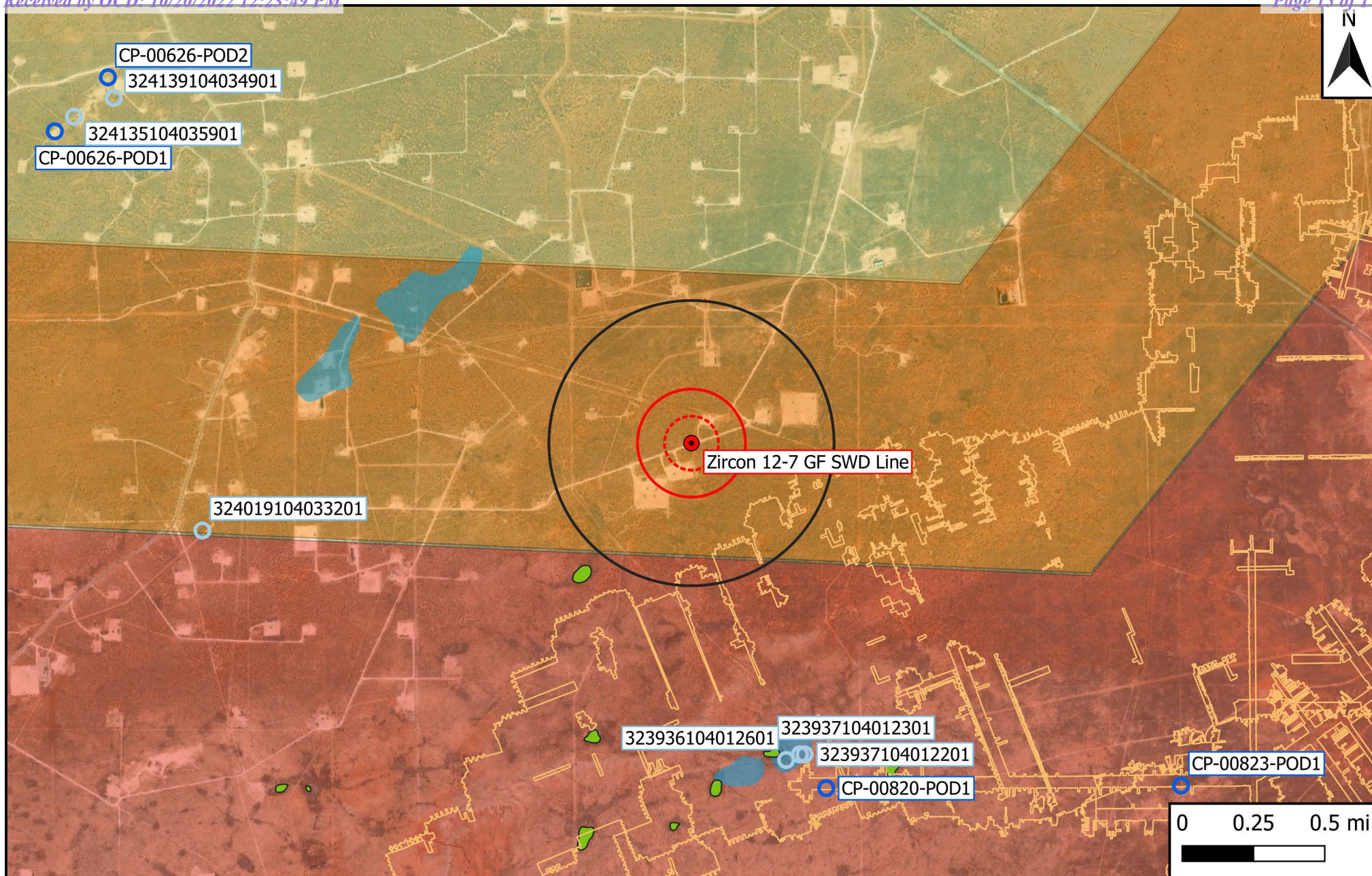
Drafted: bja

Checked: jwl

Date: 8/25/22

Figure 2

Site Characterization Map



Legend

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

Figure 2

Site Characterization Map
 Mewbourne Oil Company
 Zircon 12-7 GF SWD Line
 GPS: 32.676283, -104.029918
 Eddy County



Drafted: bja

Checked: jwl

Date: 8/25/22

Figure 3

Site & Sample Location Map



Legend

- Excavation Extent
- Composite Floor Sample
- Composite Wall Sample

Figure 3

Site & Sample Location Map
 Mewbourne Oil Company
 Zircon 12-7 GF SWD Line
 GPS: 32.676283, -104.029918
 Eddy County



Drafted: bja

Checked: jwl

Date: 10/11/22

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Zircon 12-7 GF SWD Line
NMOCD Ref. #: nAPP2218929337

NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
NW1	8/25/2022	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
NW2	9/1/2022	0.5-0.45	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
NW3	9/1/2022	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW4	9/1/2022	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
NW5	9/1/2022	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
EW1	9/1/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
EW2	9/6/2022	0-1.5	Excavated	<0.050	<0.300	<10.0	310	310	116	426	112
EW2A	9/12/2022	0-1.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
SW1	9/8/2022	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW2	9/8/2022	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW3	9/8/2022	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
SW4	9/8/2022	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
WW1	8/25/2022	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
WW2	9/1/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
WW3	9/1/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
WW4	9/8/2022	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 1 @ 6"	8/25/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 2 @ 6"	8/25/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 3 @ 6"	8/25/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 4 @ 6"	8/25/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 5 @ 6"	8/25/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 6 @ 6"	8/25/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 7 @ 6"	8/25/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL 8 @ 6"	8/25/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 9 @ 6"	8/25/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 10 @ 6"	8/25/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 11 @ 2'	8/26/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 12 @ 1.5'	8/26/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 13 @ 1'	8/26/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 14 @ 2'	8/30/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 15 @ 2.5'	8/30/2022	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 16 @ 2'	8/30/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 17 @ 6"	8/26/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
FL 18 @ 2'	8/30/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 19 @ 6"	8/30/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 20 @ 3.5'	8/30/2022	3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 21 @ 2.5'	8/30/2022	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 22 @ 2'	8/30/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 23 @ 5'	8/30/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FL 24 @ 5'	8/31/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 25 @ 2'	8/31/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Zircon 12-7 GF SWD Line
NMOCD Ref. #: nAPP2218929337

NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 26 @ 2'	8/31/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 27 @ 2'	8/31/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 28 @ 2'	9/6/2022	2	Excavated	<0.050	<0.300	<10.0	173	173	39.2	212	240
FL 28 @ 2.5'	9/12/2022	2.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FL 29 @ 2'	9/6/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 30 @ 2'	9/6/2022	2	Excavated	<0.050	<0.300	<10.0	145	145	30.8	176	272
FL 30 @ 2.5'	9/12/2022	2.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FL 31 @ 2'	9/6/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 32 @ 2'	9/6/2022	2	In-Situ	<0.050	<0.300	<10.0	31.2	31.2	<10.0	31.2	224
FL 33 @ 1.5'	9/6/2022	1.5	In-Situ	<0.050	<0.300	<10.0	81.0	81.0	11.5	92.5	176
FL 34 @ 1.5'	9/6/2022	1.5	In-Situ	<0.050	<0.300	<10.0	27.3	27.3	<10.0	27.3	224
FL 35 @ 2'	9/6/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 36 @ 2'	9/1/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 37 @ 2'	9/1/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 38 @ 2'	9/1/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 39 @ 6"	9/2/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 40 @ 6"	9/2/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 41 @ 6"	9/2/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 42 @ 6"	9/2/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 43 @ 6"	9/2/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 44 @ 6"	9/2/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 45 @ 6"	9/2/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 46 @ 6"	9/6/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 47 @ 6"	9/6/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 48 @ 1.5'	9/6/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 49 @ 1.5'	9/6/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 50 @ 1.5'	9/6/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 51 @ 6"	9/6/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 52 @ 6"	9/6/2022	0.5	In-Situ	<0.050	<0.300	<10.0	45.6	45.6	<10.0	45.6	64.0
FL 53 @ 6"	9/6/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 54 @ 6"	9/6/2022	0.5	In-Situ	<0.050	<0.300	<10.0	13.2	13.2	<10.0	13.2	128
FL 55 @ 6"	9/8/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 56 @ 6"	9/8/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 57 @ 6"	9/8/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 58 @ 6"	9/8/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 59 @ 6"	9/8/2022	0.5	Excavated	<0.050	<0.300	<10.0	99.2	99.2	36.1	135	160
FL 59 @ 1'	9/13/2022	1	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FL 60 @ 6"	9/8/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 61 @ 6"	9/8/2022	0.5	In-Situ	<0.050	<0.300	<10.0	31.5	31.5	<10.0	31.5	224
FL 62 @ 6"	9/8/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 63 @ 6"	9/8/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Zircon 12-7 GF SWD Line NMOCD Ref. #: nAPP2218929337												
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600	
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600	
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl	
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)	
FL 64 @ 6"	9/8/2022	0.5	In-Situ	<0.050	<0.300	<10.0	20.5	20.5	<10.0	20.5	208	
FL 65 @ 6"	9/8/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416	
FL 66 @ 6"	9/8/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224	
FL 67 @ 6"	9/8/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240	
FL 68 @ 6"	9/8/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448	
FL 69 @ 1.5'	9/8/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0	
FL 70 @ 1.5'	9/8/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176	
FL 71 @ 1.5'	9/8/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160	
FL 72 @ 1.5'	9/8/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368	
FL 73 @ 1.5'	9/8/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112	
FL 74 @ 1.5'	9/8/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272	
FL 75 @ 1.5'	9/8/2022	1.5	In-Situ	<0.050	<0.300	<10.0	18.7	18.7	<10.0	18.7	320	
FL 76 @ 1.5'	9/8/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224	

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

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

Appendix A

Depth to Groundwater Information



Legend

- Site Location

Figure 4

Inferred Depth to Groundwater Trend Map
Mewbourne Oil Company
Zircon 12-7 GF SWD Line
GPS: 32.676283, -104.029918
Eddy County



Drafted: bja

Checked: jwl

Date: 8/25/22



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00820 POD1	CP	LE		2	4	13	19S	29E		591713	3613870*	1983	120		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

UTM NAD83 Radius Search (in meters):

Easting (X): 590882.38

Northing (Y): 3615671

Radius: 2414

*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.



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	Tws	Rng	X	Y
	CP 00820 POD1	2	4	13	19S	29E		591713	3613870*
Driller License: 122		Driller Company: UNKNOWN							
Driller Name:									
Drill Start Date:		Drill Finish Date:				Plug Date:			
Log File Date:		PCW Rcv Date:				Source: Shallow			
Pump Type:		Pipe Discharge Size:				Estimated Yield: 10 GPM			
Casing Size: 7.00		Depth Well: 120 feet				Depth Water:			

*UTM location was derived from PLSS - see Help

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

POINT OF DIVERSION SUMMARY



Legend

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

Figure 5
USGS Well Proximity Map
Mewbourne Oil Company
Zircon 12-7 GF SWD Line
GPS: 32.676283, -104.029918
Eddy County



Drafted: bja

Checked: jwl

Date: 8/25/22



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Geographic Area:

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 323937104012301

Minimum number of levels = 1

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

USGS 323937104012301 19S.29E.13.412243

Eddy County, New Mexico

Latitude 32°39'37", Longitude 104°01'23" NAD27

Land-surface elevation 3,315 feet above NAVD88

The depth of the well is 250 feet below land surface.

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

This well is completed in the Rustler Formation (312RSLR) 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
1948-12-21		D	72019	123.55			1	Z			A
1968-04-03		D	72019	114.03			1	Z			A
1971-02-01		D	72019	110.64			1	Z			A
1976-12-07		D	72019	108.08			1	Z			A
1983-01-12		D	72019	105.62			1	Z			A

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

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

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 323936104012601

Minimum number of levels = 1

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

USGS 323936104012601 19S.29E.13.41224A

Eddy County, New Mexico

Latitude 32°39'36", Longitude 104°01'26" NAD27

Land-surface elevation 3,309 feet above NGVD29

The depth of the well is 120.00 feet below land surface.

This well is completed in the Other aquifers (N99990THER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) 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
1990-09-20		D	72019	101.40				S			A
1994-03-18		D	72019	99.83				S			A
1999-01-20		D	72019	101.22			1	S	USGS	S	A

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status		The reported water-level measurement represents a static level
Status	1	Static
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.

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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: 2022-10-12 01:51:45 EDT

0.28 0.24 nadww01



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Data Category:

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Geographic Area:

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Groundwater levels for the Nation

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

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 323937104012201

Minimum number of levels = 1

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

USGS 323937104012201 19S.29E.13.41224

Eddy County, New Mexico

Latitude 32°39'37", Longitude 104°01'22" NAD27

Land-surface elevation 3,321 feet above NAVD88

The depth of the well is 250 feet below land surface.

This well is completed in the Other aquifers (N99990THER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) 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
1948-12-21			D 72019	123.50			P	Z			A
1965-12-09			D 72019	113.03			1	Z			A
1976-12-07			D 72019	106.03			1	Z			A

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

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Title: Groundwater for USA: Water Levels

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0.32 0.23 nadww01



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Data Category:

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Geographic Area:

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 324019104033201

Minimum number of levels = 1

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

USGS 324019104033201 19S.29E.10.43211

Eddy County, New Mexico

Latitude 32°40'19", Longitude 104°03'32" NAD27

Land-surface elevation 3,371 feet above NAVD88

The depth of the well is 153 feet below land surface.

This well is completed in the Other aquifers (N99990THER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) 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
1965-12-09		D	72019	147.59			1	Z			A
1968-04-03		D	72019	145.99			1	Z			A
1971-02-01		D	72019	145.84			1	Z			A

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

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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: 2022-10-12 01:54:05 EDT

0.27 0.24 nadww01



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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 =

- 324139104034901

Minimum number of levels = 1

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

USGS 324139104034901 19S.29E.03.12344

Eddy County, New Mexico

Latitude 32°41'38.8", Longitude 104°03'52.2" NAD83

Land-surface elevation 3,421 feet above NAVD88

The depth of the well is 240 feet below land surface.

This well is completed in the Other aquifers (N99990THER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) 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
1984-07-20		D	72019	192.26			1	Z			A
1994-03-11		D	72019	189.96			1	S			A
1999-01-15		D	72019	188.86			1	S	USGS	S	A
2015-12-16	18:20 UTC	m	72019	205.42			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	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

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0.31 0.24 nadww01

Appendix B

Field Data & Soil Profile Logs



Sample Log

Date: _____

Project: Zircon 12-7 GF SWD Line

Project Number: 16072 Latitude: 32.676282 Longitude: -104.029892

Sample ID	PID/Odor	Chloride Conc.	GPS
FL 1 @ 6"	-	3.0 372	
FL 2 @ 6"	-	3.0 372	
FL 3 @ 6"	-	2.4 264	
FL 4 @ 6"	-	3.4 456	
FL 5 @ 6"	-	2.0 200	
FL 6 @ 6"	-	2.4 264	
FWI	-	3.6 504	
NWI	-	3.0 372	
FL 7 @ 6"	-	3.2 412	
FL 8 @ 6"	-	3.4 456	
FL 9 @ 6"	-	3.2 412	
FL 10 @ 6"	-	3.0 372	
FL 11 @ 6"	-	6.2 1404 *	
FL 12 @ 6"	-	4.0 604 *	
FL 12 @ 1' & 2'	-	3.2 2008 * <128	
FL 12 @ 1' & 1 1/2'	-	4.2 656 * 356	
FL 13 @ 6' & 1'	-	756.444	
FL 14 @ 6' & 1' & 1 1/2' & 2'	-	816.756.152	
FL 15 @ 6' & 1 1/2' & 2 1/2'	-	2752.2188.212	
FL 16 @ 6' & 2'	-	1444.244	
FL 17 @ 6'	-	536	
FL 18 @ 6' & 2'	-	6592.316	
FL 19 @ 6'	-	<128	
FL 20 @ 6' & 1 1/2' & 2 1/2' & 3 1/2'	-	1020.2860.1348.244	
FL 21 @ 6' & 1 1/2' & 2 1/2'	-	2036.1896.152	
FL 22 @ 6' & 2'	-	1544.180	
FL 23 @ 6' & 1' & 2 1/2' & 5'	-	1772.8832.5696.400	
FL 24 @ 6' & 2' & 5'	-	2720.6584.356	
FL 25 @ 6' & 2'	-	1176.356	
FL 26 @ 6' & 2'	-	1176.280	
FL 27 @ 6' & 2'	-	1652.164	
FL 28 @ 2'	-	356	
FL 29 @ 2'	-	280	
FL 30 @ 2'	-	316	
FL 31 @ 2'	-	280	
FL 32 @ 2'	-	316	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

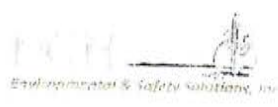
Soil Intended to be Deferred = SP #1 @ 4' In-Situ

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

0



Sample 1

Project: Zircon R-7 GPS WD Line

Date: 1-1-22

Project Number: 16072

Latitude: 32.676282

Longitude: -104.029892

Sample ID	PID/Odor	Chloride Conc.	GPS
FL33e1 1/2	-	280	
FL34e1 1/2	-	180	
FL35e2	-	212	
FL36e2	-	488	
FL37e2	-	<128	
FL38e2	-	444	
FL39e6	-	152	
FL40e6	-	128	
FL41e6	-	212	
FL42e6	-	356	
FL43e6	-	212	
FL44e6	-	<128	
FL45e6	-	128	
FL46e6	-	400	
FL47e6	-	128	
NW2	-	280	
EW1	-	316	
WW2	-	128	
WW3	-	488	
NW3	-	244	
NW4	-	180	
NW5	-	212	
FL48e1 1/2	-	128	
FL49e1 1/2	-	316	
FL50e1 1/2	-	212	
FL51e6	-	444	
FL52e6	-	152	
FL53e6	-	152	
FL54e6	-	356	
EW2	-	356	
W4	-	212	
L55e6	-	536	
L56e6	-	400	
L57e6	-	356	
L58e6	-	280	
L59e6	-	280	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: 9-8-22

Project: Zircon Flowline

Project Number: 16072

Latitude: _____ Longitude: _____

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ 888

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: Zircon 12-7 GF SWD Line

Project Number: 16072 Latitude: 32.676282 Longitude: -104.029892

Depth (ft. bgs)	Description
1	Topsoil
2	
3	Hard Caliche
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
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26	
27	
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29	
30	
31	
32	
33	
34	
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37	
38	
39	
40	

Appendix C

Photographic Log

Photographic Log



Photo Number: 1	
Photo Direction: South-Southeast	
Photo Description: View of the affected area.	

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

Photographic Log



Photo Number: 3	
Photo Direction: West	
Photo Description: View of the affected area.	

Photo Number: 4	
Photo Direction: West-Southwest	
Photo Description: View of the affected area.	

Photographic Log


Photo Number: 5	
Photo Direction: North-Northeast	
Photo Description: View of the excavated area.	

Photo Number: 6	
Photo Direction: North	
Photo Description: View of the excavated area.	

Photographic Log


Photo Number: 7	
Photo Direction: East-Northeast	
Photo Description: View of the excavated area.	

Photo Number: 8	
Photo Direction: East	
Photo Description: View of the excavated area.	

Photographic Log


Photo Number: 9	
Photo Direction: North-Northeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 10	
Photo Direction: East-Northeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log

Photo Number: 11	
Photo Direction: Southwest	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 12	
Photo Direction: West	
Photo Description: View of the remediated area after backfill and regrading.	

Appendix D

Laboratory Analytical Reports



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

August 30, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 08/26/22 14:49.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/30/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 1 @ 6" (H223944-01)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2022	ND	2.13	106	2.00	0.103	
Toluene*	<0.050	0.050	08/29/2022	ND	2.11	105	2.00	0.114	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.02	101	2.00	0.887	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.32	105	6.00	0.600	
Total BTEx	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	240	16.0	08/29/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	211	106	200	3.10	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	201	100	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 79.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.4 % 46.3-178

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*=Accredited Analyte

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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: 08/26/2022
 Reported: 08/30/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 2 @ 6" (H223944-02)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2022	ND	2.13	106	2.00	0.103	
Toluene*	<0.050	0.050	08/29/2022	ND	2.11	105	2.00	0.114	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.02	101	2.00	0.887	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.32	105	6.00	0.600	
Total BTX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	08/29/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	211	106	200	3.10	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	201	100	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 77.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.4 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/30/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 3 @ 6" (H223944-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2022	ND	2.13	106	2.00	0.103		
Toluene*	<0.050	0.050	08/29/2022	ND	2.11	105	2.00	0.114		
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.02	101	2.00	0.887		
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.32	105	6.00	0.600		
Total BTEx	<0.300	0.300	08/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	176	16.0	08/29/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	211	106	200	3.10	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	201	100	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 79.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.0 % 46.3-178

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Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/30/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 4 @ 6" (H223944-04)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2022	ND	2.13	106	2.00	0.103	
Toluene*	<0.050	0.050	08/29/2022	ND	2.11	105	2.00	0.114	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.02	101	2.00	0.887	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.32	105	6.00	0.600	
Total BTEx	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	08/29/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	211	106	200	3.10	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	201	100	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 78.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.8 % 46.3-178

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Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/30/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 5 @ 6" (H223944-05)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2022	ND	2.13	106	2.00	0.103	
Toluene*	<0.050	0.050	08/29/2022	ND	2.11	105	2.00	0.114	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.02	101	2.00	0.887	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.32	105	6.00	0.600	
Total BTEx	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	08/29/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	211	106	200	3.10	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	201	100	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 79.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.9 % 46.3-178

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Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/30/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 6 @ 6" (H223944-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2022	ND	2.13	106	2.00	0.103		
Toluene*	<0.050	0.050	08/29/2022	ND	2.11	105	2.00	0.114		
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.02	101	2.00	0.887		
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.32	105	6.00	0.600		
Total BTEx	<0.300	0.300	08/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	08/29/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	211	106	200	3.10	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	201	100	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 82.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.3 % 46.3-178

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/26/2022
 Reported: 08/30/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 7 @ 6" (H223944-07)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2022	ND	2.13	106	2.00	0.103	
Toluene*	<0.050	0.050	08/29/2022	ND	2.11	105	2.00	0.114	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.02	101	2.00	0.887	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.32	105	6.00	0.600	
Total BTEx	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	416	16.0	08/29/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	211	106	200	3.10	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	201	100	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 71.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.6 % 46.3-178

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Received: 08/26/2022
 Reported: 08/30/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 8 @ 6" (H223944-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2022	ND	2.13	106	2.00	0.103		
Toluene*	<0.050	0.050	08/29/2022	ND	2.11	105	2.00	0.114		
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.02	101	2.00	0.887		
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.32	105	6.00	0.600		
Total BTEx	<0.300	0.300	08/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	384	16.0	08/29/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	211	106	200	3.10	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	201	100	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 76.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.7 % 46.3-178

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Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/30/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 9 @ 6" (H223944-09)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2022	ND	2.13	106	2.00	0.103		
Toluene*	<0.050	0.050	08/30/2022	ND	2.11	105	2.00	0.114		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	0.887		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.32	105	6.00	0.600		
Total BTEX	<0.300	0.300	08/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	240	16.0	08/29/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	211	106	200	3.10	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	201	100	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 81.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.4 % 46.3-178

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 HOBBS NM, 88240
 Fax To:

Received: 08/26/2022
 Reported: 08/30/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 10 @ 6" (H223944-10)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2022	ND	2.13	106	2.00	0.103		
Toluene*	<0.050	0.050	08/30/2022	ND	2.11	105	2.00	0.114		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	0.887		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.32	105	6.00	0.600		
Total BTEX	<0.300	0.300	08/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	352	16.0	08/29/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 88.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.7 % 46.3-178

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Analytical Results For:

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 Fax To:

Received: 08/26/2022
 Reported: 08/30/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 1 (H223944-11)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2022	ND	2.13	106	2.00	0.103		
Toluene*	<0.050	0.050	08/30/2022	ND	2.11	105	2.00	0.114		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	0.887		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.32	105	6.00	0.600		
Total BTEx	<0.300	0.300	08/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	240	16.0	08/29/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 90.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.9 % 46.3-178

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Analytical Results For:

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 Fax To:

Received: 08/26/2022
 Reported: 08/30/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 1 (H223944-12)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2022	ND	2.13	106	2.00	0.103	
Toluene*	<0.050	0.050	08/30/2022	ND	2.11	105	2.00	0.114	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	0.887	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.32	105	6.00	0.600	
Total BTX	<0.300	0.300	08/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	448	16.0	08/29/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 85.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.1 % 46.3-178

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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: 08/26/2022
 Reported: 08/30/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 08/26/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 11 @ 2' (H223944-13)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2022	ND	2.09	104	2.00	6.87	
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	103	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.92	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.37	106	6.00	8.36	
Total BTX	<0.300	0.300	08/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	08/29/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 85.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.2 % 46.3-178

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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: 08/26/2022
 Reported: 08/30/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 08/26/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 12 @ 1.5' (H223944-14)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2022	ND	2.09	104	2.00	6.87	
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	103	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.92	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.37	106	6.00	8.36	
Total BTEx	<0.300	0.300	08/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	08/29/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 81.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.4 % 46.3-178

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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: 08/26/2022
 Reported: 08/30/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 08/26/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 13 @ 1' (H223944-15)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2022	ND	2.09	104	2.00	6.87	
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	103	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.92	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.37	106	6.00	8.36	
Total BTEx	<0.300	0.300	08/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	320	16.0	08/29/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 77.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.7 % 46.3-178

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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: 08/26/2022
 Reported: 08/30/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 08/26/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 17 @ 6" (H223944-16)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2022	ND	2.09	104	2.00	6.87	
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	103	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.92	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.37	106	6.00	8.36	
Total BTEX	<0.300	0.300	08/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	528	16.0	08/29/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 77.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.9 % 46.3-178

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

Routine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

Company Name: Etech Environmental & Safety Solutions, Inc.						BILL TO							ANALYSIS REQUEST							
Project Manager: Jack Lowry Lance Crenshaw						P.O. #:														
Address: 2617 West Marland						Company: Newbourne														
City: Hobbs State: NM Zip: 88240						Attn: Conner														
Phone #: (575) 264-9884 Fax #:						Address: 4801 Business Park Blvd														
Project #: 16072 Project Owner: Newbourne						City: Hobbs														
Project Name: Zircon Flowline						State: NM Zip: 88240														
Project Location: Rural Eddy county						Phone #:														
Sampler Name: Miguel Ramirez						Fax #:														
FOR LAB USE ONLY				MATRIX	PRESERV.	SAMPLING														
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS)	GROUNDWATER WASTEWATER	SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER :	DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)										
H723944																				
1	FL 1 @ 6"	C	I	X		8/25/24		X	X	X										
2	FL 2 @ 6"																			
3	FL 3 @ 6"																			
4	FL 4 @ 6"																			
5	FL 5 @ 6"																			
6	FL 6 @ 6"																			
7	FL 7 @ 6"																			
8	FL 8 @ 6"																			
9	FL 9 @ 6"																			
10	FL 10 @ 6"																			
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Relinquished By: [Signature] Date: 8-26-22 Time: 4:49 PM						Received By: [Signature]						Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Add'l Phone #:					
Relinquished By:						Received By:						Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Add'l Fax #:					
Time:						REMARKS:														
Delivered By: (Circle One) 5.8°C O.U.C. Sample Condition Cool Intact CHECKED BY: (Initials) Sampler - UPS - Bus - Other: 5.2°C #112																				
Please email copy of COC and results to pm@etechenv.com.																				

FORM-006
Revision 1.0

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



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

Routine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 20 of 20

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																	
Project Manager: Jett Lawrence Lance Crenshaw				P.O. #:																					
Address: 2617 West Marland				Company: Newbourne																					
City: Hobbs State: NM Zip: 88240				Attn: Conner																					
Phone #: (575) 264-9884 Fax #:				Address: 4801 Business Blvd																					
Project #: 16072 Project Owner: Newbourne				City: Hobbs																					
Project Name: Zircon Flowline				State: NM Zip: 88240				Chloride TPH (8015M) BTEX (8021B)																	
Project Location: Rural Eddy Co, NM				Phone #:																					
Sampler Name: Miguel Yarnal				Fax #:																					
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING															
Lab I.D.		Sample I.D.		# CONTAINERS		GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / GEL OTHER:		DATE TIME															
H223944				C 1		✓		X		8/25/22		X X X													
11 NW1		C 1		✓		✓						✓ ✓ ✓													
12 NW1		C 1		✓		✓																			
13 FL 11e2		C 1		✓		✓				8-26-22		✓ ✓ ✓													
14 FL 12e1 1/2		C 1		✓		✓						✓ ✓ ✓													
15 FL 13e1		C 1		✓		✓						✓ ✓ ✓													
16 FL 17e6		C 1		✓		✓						✓ ✓ ✓													
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Relinquished By: [Signature]				Date: 8-26-22				Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:									
				Time: 1449								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:									
Relinquished By:				Date:				Received By:				REMARKS:													
				Time:																					
Delivered By: (Circle One) 58e/c - O.V.:				Sample Condition				CHECKED BY:				Please email copy of COC and results to pm@etechenv.com.													
Sampler - UPS - Bus - Other				Cool Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				(Initials) [Signature]																	



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

September 02, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 08/31/22 14:38.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/31/2022	Sampling Date:	08/30/2022
Reported:	09/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: FL 14 @ 2' (H224006-01)

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2022	ND	1.69	84.4	2.00	11.4	
Toluene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	9.67	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.28	105	6.00	10.8	
Total BTX	<0.300	0.300	09/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	224	16.0	09/01/2022	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	09/01/2022	ND	201	101	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	221	110	200	0.661	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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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:	08/31/2022	Sampling Date:	08/30/2022
Reported:	09/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: FL 15 @ 2.5' (H224006-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/01/2022	ND	1.69	84.4	2.00	11.4		
Toluene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	9.67		
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	10.2		
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.28	105	6.00	10.8		
Total BTX	<0.300	0.300	09/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	09/01/2022	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	09/01/2022	ND	201	101	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	221	110	200	0.661	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/02/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 08/30/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 16 @ 2' (H224006-03)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2022	ND	1.69	84.4	2.00	11.4	
Toluene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	9.67	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.28	105	6.00	10.8	
Total BTX	<0.300	0.300	09/01/2022	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	80.0	16.0	09/01/2022	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	09/01/2022	ND	201	101	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	221	110	200	0.661	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 87.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.6 % 46.3-178

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Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/02/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 08/30/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 18 @ 2' (H224006-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2022	ND	1.69	84.4	2.00	11.4	
Toluene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	9.67	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.28	105	6.00	10.8	
Total BTEX	<0.300	0.300	09/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	352	16.0	09/01/2022	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	09/01/2022	ND	201	101	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	221	110	200	0.661	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 93.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.1 % 46.3-178

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Received: 08/31/2022
 Reported: 09/02/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 08/30/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 19 @ 6" (H224006-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2022	ND	1.69	84.4	2.00	11.4	
Toluene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	9.67	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.28	105	6.00	10.8	
Total BTEX	<0.300	0.300	09/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	09/01/2022	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	09/01/2022	ND	201	101	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	221	110	200	0.661	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 98.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Received:	08/31/2022	Sampling Date:	08/30/2022
Reported:	09/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: FL 20 @ 3.5' (H224006-06)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2022	ND	1.69	84.4	2.00	11.4	
Toluene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	9.67	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.28	105	6.00	10.8	
Total BTX	<0.300	0.300	09/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	09/01/2022	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	09/01/2022	ND	201	101	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	221	110	200	0.661	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 88.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.4 % 46.3-178

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Received: 08/31/2022
 Reported: 09/02/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 08/30/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 21 @ 2.5' (H224006-07)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2022	ND	1.69	84.4	2.00	11.4	
Toluene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	9.67	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.28	105	6.00	10.8	
Total BTX	<0.300	0.300	09/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	09/01/2022	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	09/01/2022	ND	201	101	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	221	110	200	0.661	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 98.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 08/31/2022
 Reported: 09/02/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 08/30/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 22 @ 2' (H224006-08)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2022	ND	1.69	84.4	2.00	11.4	
Toluene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	9.67	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.28	105	6.00	10.8	
Total BTX	<0.300	0.300	09/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	09/01/2022	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	09/01/2022	ND	201	101	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	221	110	200	0.661	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.7 % 46.3-178

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received:	08/31/2022	Sampling Date:	08/30/2022
Reported:	09/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: FL 23 @ 5' (H224006-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/01/2022	ND	1.69	84.4	2.00	11.4		
Toluene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	9.67		
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	10.2		
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.28	105	6.00	10.8		
Total BTEx	<0.300	0.300	09/01/2022	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	480	16.0	09/01/2022	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	09/01/2022	ND	201	101	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	221	110	200	0.661	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 75.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.9 % 46.3-178

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 08/31/2022
 Reported: 09/02/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 24 @ 5' (H224006-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/01/2022	ND	1.69	84.4	2.00	11.4		
Toluene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	9.67		
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	10.2		
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.28	105	6.00	10.8		
Total BTEx	<0.300	0.300	09/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	384	16.0	09/01/2022	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	09/01/2022	ND	201	101	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	221	110	200	0.661	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 97.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

Routine

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: 2617 W Marland				Company: Mowbourn																							
City: Hobbs State: NM Zip: 88240				Attn: Conner																							
Phone #: (575) 264-9884 Fax #:				Address: 4801 Burdick Pk Rd																							
Project #: 16072 Project Owner: Conner				City: Hobbs																							
Project Name: Zircon Flowline				State: NM Zip: 88240																							
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 / COOL:	OTHER:	DATE	TIME													
HZ24006																											
1	FL 14e2	C	1			✓				✓			8-30-22		✓	✓	✓										
2	FL 15e2 1/2	C	1			✓				✓					✓	✓	✓										
3	FL 16e2	C	1			✓				✓					✓	✓	✓										
4	FL 18e2	C	1			✓				✓					✓	✓	✓										
5	FL 19e2	C	1			✓				✓					✓	✓	✓										
6	FL 20e3 1/2	C	1			✓				✓					✓	✓	✓										
7	FL 21e2 1/2	C	1			✓				✓					✓	✓	✓										
8	FL 22e2	C	1			✓				✓					✓	✓	✓										
9	FL 23e5	C	1			✓				✓					✓	✓	✓										
10	FL 24e5	C	1			✓				✓			8-31-22		✓	✓	✓										
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																											
Relinquished By:		Date: 8-31-22		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		REMARKS:															
Eric Mojica		Time: 1438		[Signature]																							
Relinquished By:		Date:		Received By:																							
		Time:										Please email results and copy of CoC to pm@etechenv.com.															
Delivered By: (Circle One)		Sample Condition		CHECKED BY:																							
Sampler - UPS - Bus - Other: 4.6e / 4.0e		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		[Initials]																							
		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>																									

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

September 09, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 09/02/22 15:39.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	09/02/2022	Sampling Date:	08/31/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: FL 25 @ 2' (H224053-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	1.47	
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784	
Total BTX	<0.300	0.300	09/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	09/07/2022	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	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 86.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.5 % 46.3-178

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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: 09/02/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 26 @ 2' (H224053-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	1.47		
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784		
Total BTEx	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	09/07/2022	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	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 81.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.6 % 46.3-178

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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: 09/02/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 27 @ 2' (H224053-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	1.47		
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784		
Total BTEx	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	09/07/2022	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	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 88.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.6 % 46.3-178

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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: 09/02/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 2 (H224053-04)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	1.47	
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784	
Total BTX	<0.300	0.300	09/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	09/07/2022	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	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 89.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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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: 09/02/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 3 (H224053-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	1.47		
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784		
Total BTEx	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	09/07/2022	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	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 71.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.4 % 46.3-178

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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: 09/02/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 4 (H224053-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	1.47		
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784		
Total BTEX	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	09/07/2022	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	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 83.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.0 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/02/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 5 (H224053-07)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	1.47	
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784	
Total BTX	<0.300	0.300	09/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	09/07/2022	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	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 85.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.3 % 46.3-178

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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: 09/02/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 1 (H224053-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	1.47		
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784		
Total BTEx	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	176	16.0	09/07/2022	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	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 83.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.2 % 46.3-178

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Analytical Results For:

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

Received: 09/02/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 2 (H224053-09)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	1.47	
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784	
Total BTX	<0.300	0.300	09/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	09/07/2022	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	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 86.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.8 % 46.3-178

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Analytical Results For:

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

Received: 09/02/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 3 (H224053-10)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	1.47	
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784	
Total BTX	<0.300	0.300	09/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	09/07/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 84.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.2 % 46.3-178

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Analytical Results For:

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

Received: 09/02/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 36 @ 2' (H224053-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	1.47		
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784		
Total BTEx	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	320	16.0	09/07/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 84.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.7 % 46.3-178

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Analytical Results For:

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

Received: 09/02/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 37 @ 2' (H224053-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	1.47		
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784		
Total BTEx	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	09/07/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 88.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.2 % 46.3-178

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Analytical Results For:

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

Received: 09/02/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 38 @ 2' (H224053-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	1.47		
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784		
Total BTEx	<0.300	0.300	09/08/2022	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	352	16.0	09/07/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 90.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.4 % 46.3-178

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Analytical Results For:

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

Received: 09/02/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

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

Sample ID: FL 39 @ 6" (H224053-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	1.47		
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784		
Total BTEx	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	09/07/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 87.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.3 % 46.3-178

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Analytical Results For:

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

Received: 09/02/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

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

Sample ID: FL 40 @ 6" (H224053-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	1.47		
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784		
Total BTEx	<0.300	0.300	09/08/2022	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	96.0	16.0	09/07/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	174	86.8	200	7.63	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	177	88.3	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 83.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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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: 09/02/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

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

Sample ID: FL 41 @ 6" (H224053-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2022	ND	1.83	91.4	2.00	2.89	QM-07, QR-03
Toluene*	<0.050	0.050	09/08/2022	ND	2.05	102	2.00	7.52	QR-03
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.03	101	2.00	9.47	QR-03
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.24	104	6.00	9.87	QR-03
Total BTEx	<0.300	0.300	09/08/2022	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	09/07/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	174	86.8	200	7.63	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	177	88.3	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 84.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.7 % 46.3-178

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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: 09/02/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

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

Sample ID: FL 42 @ 6" (H224053-17)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2022	ND	1.83	91.4	2.00	2.89	
Toluene*	<0.050	0.050	09/08/2022	ND	2.05	102	2.00	7.52	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.03	101	2.00	9.47	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.24	104	6.00	9.87	
Total BTX	<0.300	0.300	09/08/2022	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	09/07/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	174	86.8	200	7.63	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	177	88.3	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 93.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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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: 09/02/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

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

Sample ID: FL 43 @ 6" (H224053-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2022	ND	1.83	91.4	2.00	2.89		
Toluene*	<0.050	0.050	09/08/2022	ND	2.05	102	2.00	7.52		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.03	101	2.00	9.47		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.24	104	6.00	9.87		
Total BTEx	<0.300	0.300	09/08/2022	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	09/07/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	174	86.8	200	7.63	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	177	88.3	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 86.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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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: 09/02/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

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

Sample ID: FL 44 @ 6" (H224053-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2022	ND	1.83	91.4	2.00	2.89		
Toluene*	<0.050	0.050	09/08/2022	ND	2.05	102	2.00	7.52		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.03	101	2.00	9.47		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.24	104	6.00	9.87		
Total BTEx	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	09/07/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	174	86.8	200	7.63	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	177	88.3	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 88.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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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: 09/02/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

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

Sample ID: FL 45 @ 6" (H224053-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2022	ND	1.83	91.4	2.00	2.89		
Toluene*	<0.050	0.050	09/08/2022	ND	2.05	102	2.00	7.52		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.03	101	2.00	9.47		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.24	104	6.00	9.87		
Total BTEx	<0.300	0.300	09/08/2022	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	09/07/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	174	86.8	200	7.63	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	177	88.3	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 93.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

Routine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST															
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>															
Address: 2617 W Marland				Company: Mewbourne																			
City: Hobbs		State: NM Zip: 88240		Attn: Conner																			
Phone #: (575) 264-9884		Fax #:		Address: 4901 Business Pl Blvd																			
Project #: 16072		Project Owner: Conner		City: Hobbs																			
Project Name: Zircan Flowline				State: NM Zip: 88240																			
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 / GEL:	OTHER:	DATE	TIME									
4224053																							
1	FL 25e2	C	1			✓				✓			8-31-22		✓	✓	✓						
2	FL 26e2	C	1			✓				✓					✓	✓	✓						
3	FL 27e2	C	1			✓				✓					✓	✓	✓						
4	NW 2	C	1			✓				✓			9-1-22		✓	✓	✓						
5	NW 3	C	1			✓				✓					✓	✓	✓						
6	NW 4	C	1			✓				✓					✓	✓	✓						
7	NW 5	C	1			✓				✓					✓	✓	✓						
8	EW 1	C	1			✓				✓					✓	✓	✓						
9	WW 2	C	1			✓				✓					✓	✓	✓						
10	WW 3	C	1			✓				✓					✓	✓	✓						

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Relinquished By: Eric Mojica	Date: 7-2-22 Time: 1539	Received By: [Signature]	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:	
			Please email results and copy of CoC to pm@etechenv.com.	

Delivered By: (Circle One) 4.0e2	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	CHECKED BY: [Signature]
Sampler - UPS - Bus - Other: 4.0e2 #113	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

Routine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 W Marland				Company: Mewbourne																							
City: Hobbs State: NM Zip: 88240				Attn: Connor																							
Phone #: (575) 264-9884 Fax #:				Address: 4801 Business Pk Blvd																							
Project #: 16072 Project Owner: Connor				City: Hobbs																							
Project Name: Zircon Flowline				State: NM Zip: 88240																							
Project Location: Rural Eddy Co, NM				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 / GEL	OTHER	DATE	TIME													
H224053																											
11	FL 3602	C	1			✓					✓		9-1-22		✓	✓	✓										
12	FL 3702	C	1			✓					✓				✓	✓	✓										
13	FL 3802	C	1			✓					✓				✓	✓	✓										
14	FL 3902	C	1			✓					✓		9-2-22		✓	✓	✓										
15	FL 4006	C	1			✓					✓				✓	✓	✓										
16	FL 4106	C	1			✓					✓				✓	✓	✓										
17	FL 4206	C	1			✓					✓				✓	✓	✓										
18	FL 4306	C	1			✓					✓				✓	✓	✓										
19	FL 4406	C	1			✓					✓				✓	✓	✓										
20	FL 4506	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:		Date: 9-2-22		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		REMARKS:																	
Time: 1539		Time: 1539		Time: 1539		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																			
Refiniquished By:		Date:		Received By:																							
Time:										Please email results and copy of CoC to pm@etechenv.com.																	
Delivered By: (Circle One) 4.06c-o.062		Sample Condition		CHECKED BY:																							
Sampler - UPS - Bus - Other: 4.06 #113		Cool Intact		Initials																							
		<input type="checkbox"/> Yes <input type="checkbox"/> No		812																							

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

September 09, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 09/06/22 15:46.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	09/06/2022	Sampling Date:	09/06/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: EW 2 (H224070-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.52	109	6.00	11.3	
Total BTEx	<0.300	0.300	09/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	112	16.0	09/08/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	194	97.2	200	1.54	
DRO >C10-C28*	310	10.0	09/08/2022	ND	207	104	200	0.560	
EXT DRO >C28-C36	116	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 90.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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Analytical Results For:

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

Received: 09/06/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 28 @ 2' (H224070-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.52	109	6.00	11.3	
Total BTEx	<0.300	0.300	09/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	240	16.0	09/08/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	194	97.2	200	1.54	
DRO >C10-C28*	173	10.0	09/08/2022	ND	207	104	200	0.560	
EXT DRO >C28-C36	39.2	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 95.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.4 % 46.3-178

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Analytical Results For:

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

Received: 09/06/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 29 @ 2' (H224070-03)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.52	109	6.00	11.3	
Total BTX	<0.300	0.300	09/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	09/08/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	194	97.2	200	1.54	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	207	104	200	0.560	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 88.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.8 % 46.3-178

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Analytical Results For:

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Received: 09/06/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 30 @ 2' (H224070-04)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.52	109	6.00	11.3	
Total BTX	<0.300	0.300	09/07/2022	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	272	16.0	09/08/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	194	97.2	200	1.54	
DRO >C10-C28*	145	10.0	09/08/2022	ND	207	104	200	0.560	
EXT DRO >C28-C36	30.8	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 95.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Received: 09/06/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 31 @ 2' (H224070-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.52	109	6.00	11.3	
Total BTX	<0.300	0.300	09/07/2022	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	160	16.0	09/08/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	194	97.2	200	1.54	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	207	104	200	0.560	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 96.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.2 % 46.3-178

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Received: 09/06/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 32 @ 2' (H224070-06)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.52	109	6.00	11.3	
Total BTX	<0.300	0.300	09/07/2022	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	224	16.0	09/08/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	194	97.2	200	1.54	
DRO >C10-C28*	31.2	10.0	09/08/2022	ND	207	104	200	0.560	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 94.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Received: 09/06/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 33 @ 1.5' (H224070-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.52	109	6.00	11.3	
Total BTEx	<0.300	0.300	09/07/2022	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	176	16.0	09/08/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	194	97.2	200	1.54	
DRO >C10-C28*	81.0	10.0	09/08/2022	ND	207	104	200	0.560	
EXT DRO >C28-C36	11.5	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 142 % 45.3-161

Surrogate: 1-Chlorooctadecane 153 % 46.3-178

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Received: 09/06/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 34 @ 1.5' (H224070-08)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.52	109	6.00	11.3	
Total BTX	<0.300	0.300	09/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	224	16.0	09/08/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	194	97.2	200	1.54	
DRO >C10-C28*	27.3	10.0	09/08/2022	ND	207	104	200	0.560	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 92.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.8 % 46.3-178

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Analytical Results For:

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 Fax To:

Received: 09/06/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 35 @ 2' (H224070-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2022	ND	1.85	92.7	2.00	2.33		
Toluene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.1		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.7		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.52	109	6.00	11.3		
Total BTEx	<0.300	0.300	09/08/2022	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	09/08/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	194	97.2	200	1.54	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	207	104	200	0.560	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 94.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.0 % 46.3-178

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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: 09/06/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 46 @ 6" (H224070-10)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.52	109	6.00	11.3	
Total BTEx	<0.300	0.300	09/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	09/08/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	194	97.2	200	1.54	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	207	104	200	0.560	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 88.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.1 % 46.3-178

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Analytical Results For:

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

Received: 09/06/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 47 @ 6" (H224070-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2022	ND	1.85	92.7	2.00	2.33		
Toluene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.1		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.7		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.52	109	6.00	11.3		
Total BTEx	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	09/08/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	194	97.2	200	1.54	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	207	104	200	0.560	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 89.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.6 % 46.3-178

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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: 09/06/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 48 @ 1.5' (H224070-12)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.52	109	6.00	11.3	
Total BTX	<0.300	0.300	09/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	09/08/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	224	112	200	6.45	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	213	107	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 79.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.4 % 46.3-178

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Analytical Results For:

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

Received: 09/06/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 49 @ 1.5' (H224070-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2022	ND	1.85	92.7	2.00	2.33		
Toluene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.1		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.7		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.52	109	6.00	11.3		
Total BTEx	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	09/08/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	224	112	200	6.45	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	213	107	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 74.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.3 % 46.3-178

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Analytical Results For:

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

Received: 09/06/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 50 @ 1.5' (H224070-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2022	ND	1.85	92.7	2.00	2.33		
Toluene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.1		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.7		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.52	109	6.00	11.3		
Total BTEx	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	09/08/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	224	112	200	6.45	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	213	107	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 78.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.6 % 46.3-178

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Analytical Results For:

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

Received: 09/06/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 51 @ 6" (H224070-15)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2022	ND	1.85	92.7	2.00	2.33		
Toluene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.1		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.7		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.52	109	6.00	11.3		
Total BTX	<0.300	0.300	09/08/2022	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	224	16.0	09/08/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	224	112	200	6.45	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	213	107	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 73.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.3 % 46.3-178

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Analytical Results For:

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

Received: 09/06/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 52 @ 6" (H224070-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.52	109	6.00	11.3	
Total BTEx	<0.300	0.300	09/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	09/08/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	224	112	200	6.45	
DRO >C10-C28*	45.6	10.0	09/08/2022	ND	213	107	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 70.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.8 % 46.3-178

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Analytical Results For:

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

Received: 09/06/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 53 @ 6" (H224070-17)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2022	ND	1.85	92.7	2.00	2.33		
Toluene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.1		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.7		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.52	109	6.00	11.3		
Total BTX	<0.300	0.300	09/08/2022	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	09/08/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	224	112	200	6.45	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	213	107	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 70.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.7 % 46.3-178

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Analytical Results For:

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

Received: 09/06/2022
 Reported: 09/09/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 54 @ 6" (H224070-18)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.52	109	6.00	11.3	
Total BTEx	<0.300	0.300	09/08/2022	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	128	16.0	09/08/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	224	112	200	6.45	
DRO >C10-C28*	13.2	10.0	09/08/2022	ND	213	107	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 77.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

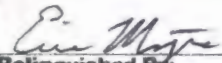
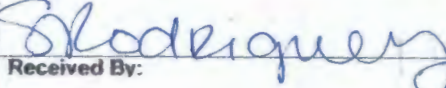

(575) 393-2326 FAX (575) 393-2476

Routine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

Page 21 of 22

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 style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>																																							
Address: 2617 W Marland				Company: Mewbourne																																											
City: Hobbs State: NM Zip: 88240				Attn: Conner																																											
Phone #: (575) 264-9884 Fax #:				Address: 4801 Dwiner, Pkblw																																											
Project #: 16072 Project Owner: Conner				City: Hobbs																																											
Project Name: Zircon Flowline				State: NM Zip: 88240																																											
Project Location: Rural Eddy County				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																			
H224070				C		1						✓								✓		✓		✓		9-6-22																					
1		EW2		C		1						✓								✓		✓		✓																							
2		FL 2802		C		1						✓								✓		✓		✓																							
3		FL 2902		C		1						✓								✓		✓		✓																							
4		FL 3002		C		1						✓								✓		✓		✓																							
5		FL 3102		C		1						✓								✓		✓		✓																							
6		FL 3202		C		1						✓								✓		✓		✓																							
7		FL 3301 1/2		C		1						✓								✓		✓		✓																							
8		FL 3401 1/2		C		1						✓								✓		✓		✓																							
9		FL 3502		C		1						✓								✓		✓		✓																							
10		FL 4606		C		1						✓								✓		✓		✓																							
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Relinquished By:				Date:				Received By:																																							
Delivered By: (Circle One) 5.42 C.O.O.				Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No				CHECKED BY: (Initials) 				Please email results and copy of CoC to pm@etechenv.com.																																			
Sampler - UPS - Bus - Other: 4.8: #113																																															

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

Page 22 of 22

[illegible]



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

September 13, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 09/08/22 14:35.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: WW4 (H224132-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2022	ND	2.06	103	2.00	0.711	
Toluene*	<0.050	0.050	09/12/2022	ND	2.03	102	2.00	1.15	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.00	100	2.00	1.21	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.20	103	6.00	2.15	
Total BTX	<0.300	0.300	09/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	208	16.0	09/13/2022	ND	400	100	400	3.92	

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	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 91.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.9 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: FL 55 @ 6" (H224132-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	2.06	103	2.00	0.711		
Toluene*	<0.050	0.050	09/12/2022	ND	2.03	102	2.00	1.15		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.00	100	2.00	1.21		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.20	103	6.00	2.15		
Total BTEx	<0.300	0.300	09/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	09/13/2022	ND	400	100	400	3.92	

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	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 90.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.6 % 46.3-178

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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: 09/08/2022
 Reported: 09/13/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 56 @ 6" (H224132-03)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291		
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479		
Total BTX	<0.300	0.300	09/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	09/13/2022	ND	400	100	400	3.92		

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	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 88.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.5 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: FL 57 @ 6" (H224132-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291		
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479		
Total BTEx	<0.300	0.300	09/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	09/13/2022	ND	400	100	400	3.92		

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	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 90.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.5 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: FL 58 @ 6" (H224132-05)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291		
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479		
Total BTX	<0.300	0.300	09/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	09/13/2022	ND	400	100	400	3.92		

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	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 87.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.9 % 46.3-178

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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: 09/08/2022
 Reported: 09/13/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 59 @ 6" (H224132-06)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291	
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479	
Total BTX	<0.300	0.300	09/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	09/13/2022	ND	400	100	400	3.92	

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	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	99.2	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	36.1	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 91.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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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: 09/08/2022
 Reported: 09/13/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 60 @ 6" (H224132-07)

BTEx 8021B			mg/kg							
			Analyzed By: JH/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291		
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479		
Total BTEX	<0.300	0.300	09/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	160	16.0	09/13/2022	ND	400	100	400	3.92		

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	09/12/2022	ND	201	101	200	2.15		
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	214	107	200	1.08		
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND						

Surrogate: 1-Chlorooctane 87.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.7 % 46.3-178

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Analytical Results For:

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: FL 61 @ 6" (H224132-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291		
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479		
Total BTEX	<0.300	0.300	09/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	224	16.0	09/13/2022	ND	400	100	400	3.92		

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	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	31.5	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.7 % 46.3-178

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Analytical Results For:

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

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 62 @ 6" (H224132-09)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291		
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479		
Total BTEX	<0.300	0.300	09/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	208	16.0	09/13/2022	ND	400	100	400	3.92	

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	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 88.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.3 % 46.3-178

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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: 09/08/2022
 Reported: 09/13/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 63 @ 6" (H224132-10)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291		
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479		
Total BTEx	<0.300	0.300	09/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	208	16.0	09/13/2022	ND	400	100	400	3.92		

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	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 91.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.4 % 46.3-178

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Analytical Results For:

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: FL 64 @ 6" (H224132-11)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291		
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479		
Total BTEX	<0.300	0.300	09/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	208	16.0	09/13/2022	ND	448	112	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	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	20.5	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 84.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.6 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: FL 65 @ 6" (H224132-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291		
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479		
Total BTEX	<0.300	0.300	09/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	416	16.0	09/13/2022	ND	448	112	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	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 92.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.0 % 46.3-178

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Analytical Results For:

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: FL 66 @ 6" (H224132-13)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291		
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479		
Total BTEX	<0.300	0.300	09/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	224	16.0	09/13/2022	ND	448	112	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	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 71.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.4 % 46.3-178

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Analytical Results For:

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

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 67 @ 6" (H224132-14)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291		
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479		
Total BTEX	<0.300	0.300	09/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	240	16.0	09/13/2022	ND	448	112	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	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 72.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.7 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: FL 68 @ 6" (H224132-15)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291		
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479		
Total BTEX	<0.300	0.300	09/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	448	16.0	09/13/2022	ND	448	112	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	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 79.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.0 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: FL 69 @ 1.5' (H224132-16)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291		
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479		
Total BTEx	<0.300	0.300	09/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	09/13/2022	ND	448	112	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	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 66.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.8 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: FL 70 @ 1.5' (H224132-17)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291		
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479		
Total BTX	<0.300	0.300	09/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	09/13/2022	ND	448	112	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	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 73.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.4 % 46.3-178

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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: 09/08/2022
 Reported: 09/13/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 71 @ 1.5' (H224132-18)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291		
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479		
Total BTEx	<0.300	0.300	09/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	09/13/2022	ND	448	112	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	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 83.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.0 % 46.3-178

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

Analytical Results For:

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: FL 72 @ 1.5' (H224132-19)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291		
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479		
Total BTX	<0.300	0.300	09/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	368	16.0	09/13/2022	ND	448	112	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	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 83.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.2 % 46.3-178

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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: 09/08/2022
 Reported: 09/13/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 73 @ 1.5' (H224132-20)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291		
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479		
Total BTEx	<0.300	0.300	09/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	09/13/2022	ND	448	112	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	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 74.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.9 % 46.3-178

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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: 09/08/2022
 Reported: 09/13/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 74 @ 1.5' (H224132-21)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291		
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479		
Total BTEx	<0.300	0.300	09/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	09/13/2022	ND	448	112	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	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 65.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.0 % 46.3-178

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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: 09/08/2022
 Reported: 09/13/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 75 @ 1.5' (H224132-22)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291		
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479		
Total BTX	<0.300	0.300	09/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	320	16.0	09/13/2022	ND	448	112	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	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	18.7	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 83.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.9 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: FL 76 @ 1.5' (H224132-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.98	99.1	2.00	0.208		
Toluene*	<0.050	0.050	09/12/2022	ND	2.21	111	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.15	107	2.00	3.58		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.66	111	6.00	3.55		
Total BTEx	<0.300	0.300	09/12/2022	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	224	16.0	09/13/2022	ND	448	112	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	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 71.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.6 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: SW 1 (H224132-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.98	99.1	2.00	0.208		
Toluene*	<0.050	0.050	09/12/2022	ND	2.21	111	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.15	107	2.00	3.58		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.66	111	6.00	3.55		
Total BTEx	<0.300	0.300	09/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	09/13/2022	ND	448	112	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	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 69.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.9 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: SW 2 (H224132-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.98	99.1	2.00	0.208		
Toluene*	<0.050	0.050	09/12/2022	ND	2.21	111	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.15	107	2.00	3.58		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.66	111	6.00	3.55		
Total BTEx	<0.300	0.300	09/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	09/13/2022	ND	448	112	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	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 78.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.0 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: SW 3 (H224132-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.98	99.1	2.00	0.208		
Toluene*	<0.050	0.050	09/12/2022	ND	2.21	111	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.15	107	2.00	3.58		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.66	111	6.00	3.55		
Total BTEx	<0.300	0.300	09/12/2022	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	09/13/2022	ND	448	112	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	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 65.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.9 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: SW 4 (H224132-27)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.98	99.1	2.00	0.208		
Toluene*	<0.050	0.050	09/12/2022	ND	2.21	111	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.15	107	2.00	3.58		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.66	111	6.00	3.55		
Total BTEx	<0.300	0.300	09/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	224	16.0	09/13/2022	ND	448	112	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	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 75.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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

Routine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1-f3

Page 30 of 32

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: <u>Lance Crenshaw</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 W Marland				Company: <u>Mewbourne</u>																							
City: Hobbs State: NM Zip: 88240				Attn: <u>Conner</u>																							
Phone #: (575) 264-9884 Fax #: <u>Mewbourne</u>				Address: <u>4801 Business Park Blvd</u>																							
Project #: <u>16072</u> Project Owner: <u>Conner</u>				City: <u>Hobbs</u>																							
Project Name: <u>Zircon Flowline</u>				State: <u>NM</u> Zip: <u>88240</u>																							
Project Location: <u>Rural Eddy County</u>				Phone #:																							
Sampler Name: <u>Eric Mojica</u>				Fax #:																							
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / GEL:	OTHER:	DATE	TIME													
<u>H224H32</u>																											
1	WW4	C	1			✓				✓			9-8-22		✓	✓	✓										
2	FL55e6"	C	1			✓				✓					✓	✓	✓										
3	FL56e6"	C	1			✓				✓					✓	✓	✓										
4	FL57e6"	C	1			✓				✓					✓	✓	✓										
5	FL58e6"	C	1			✓				✓					✓	✓	✓										
6	FL59e6"	C	1			✓				✓					✓	✓	✓										
7	FL60e6"	C	1			✓				✓					✓	✓	✓										
8	FL61e6"	C	1			✓				✓					✓	✓	✓										
9	FL62e6"	C	1			✓				✓					✓	✓	✓										
10	FL63e6"	C	1			✓				✓					✓	✓	✓										

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Relinquished By: <u>Eric Mojica</u>	Date: <u>9-8-22</u> Time: <u>1435</u>	Received By: <u>[Signature]</u>	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) Sampler - UPS - Bus - Other: <u>6.6c / 6.0c</u> <u>#113</u>			Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	
			CHECKED BY: (Initials) <u>TO</u>	

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

FORM-006
Revision 1.0

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

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Routine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3.73

Page 32 of 32

[illegible]

FORM-006
Revision 1.0

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Released to Imaging: 1/19/2023 1:55:23 PM



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

September 13, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 09/12/22 16:08.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: EW 2A (H224193-01)

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	09/13/2022	ND	206	103	200	0.851	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	222	111	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					
Surrogate: 1-Chlorooctane	90.0 %	45.3-161							
Surrogate: 1-Chlorooctadecane	107 %	46.3-178							

Sample ID: FL 28 @ 2.5' (H224193-02)

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	09/13/2022	ND	206	103	200	0.851	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	222	111	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					
Surrogate: 1-Chlorooctane	89.2 %	45.3-161							
Surrogate: 1-Chlorooctadecane	104 %	46.3-178							

Cardinal Laboratories

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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: 09/12/2022
 Reported: 09/13/2022
 Project Name: ZIRCON FLOWLINE
 Project Number: 16072
 Project Location: MEWBOURNE - RURAL EDDY CO

Sampling Date: 09/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 30 @ 2.5' (H224193-03)

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	09/13/2022	ND	206	103	200	0.851	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	222	111	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					
Surrogate: 1-Chlorooctane	92.8 %	45.3-161							
Surrogate: 1-Chlorooctadecane	108 %	46.3-178							

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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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

Celey D. Keene, Lab Director/Quality Manager



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

September 16, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 09/15/22 8:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/15/2022	Sampling Date:	09/13/2022
Reported:	09/16/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: FL 59 @ 1' (H224260-01)

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	09/16/2022	ND	188	93.9	200	2.75	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	194	97.0	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	71.5 %	45.3-161							
Surrogate: 1-Chlorooctadecane	74.9 %	46.3-178							

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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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 152347

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 152347
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	1/19/2023