

Incident ID	nAPP2215352060
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. Engineer
Signature:  Date: 10/20/2022
email: cwalker@mewbourne.com Telephone: (806)202-5281

OCD Only

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

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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 Hairmon 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.

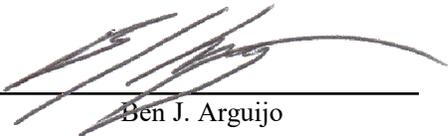
Closure Approved by:  Date: 01/18/2023
 Printed Name: Jocelyn Hairmon Title: Environmental Specialist

Remediation Summary & Soil Closure Request

Mewbourne Oil Company
Zircon 12-7 B2JK Fed Com #1H SWD Line
Eddy County, New Mexico
Unit Letter "F", Section 12, Township 19 South, Range 29 East
Latitude 32.675798 North, Longitude 104.03071 West
NMOCD Reference No. nAPP2215352060

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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- Appendix A - Depth to Groundwater Information
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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 B2JK Fed Com #1H SWD Line (henceforth, "Zircon 12-7 SWD Line"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.675798 Longitude: -104.030710
 Provided GPS are in WGS84 format.

Site Name: Zircon 12-7 B2JK Fed Com #1H SWD Line	Site Type: Pipeline
Date Release Discovered: 5/18/2022	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) 185	Volume Recovered (bbls) 120
	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

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

Previously submitted portions of the NMOCD Form C-141 are available on 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 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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<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	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Zircon 12-7 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 REGULATORY CORRESPONDENCE

On July 8, 2022, based on laboratory analytical results from the initial site assessment, the size and nature of the impacted area, and the estimated depth to groundwater, an *Alternative Sampling Plan* was submitted to the NMOCD proposing an alternative sampling plan to include the collection of composite soil samples every 50 linear feet from the excavation sidewalls and every 400 square feet from the base of the excavated area. The *Alternative Sampling Plan* was subsequently approved by the NMOCD.

Copies of all regulatory correspondence are provided in Appendix E.

5.0 INITIAL SITE ASSESSMENT

On May 31, 2022, Etech conducted an initial site assessment. During the initial site assessment, seven (7) hand-augered soil bores (SP1 through SP7) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. In addition, eight (8) hand-augered soil bores (NH1, EH1, EH2, EH3, SH1, WH1, WH2, and WH3) were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of impacted soil. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab® chloride test kit. The soil bores were advanced in one (1) foot increments until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria or until refusal was met.

Based on field observations and field test data, a total of 30 delineation soil samples (NH1 @ Surface, NH1 @ 1', EH1 @ Surface, EH1 @ 1', EH2 @ Surface, EH2 @ 1', EH3 @ Surface, EH3 @ 1', SH1 @ Surface, SH1 @ 1', WH1 @ Surface, WH1 @ 1', WH2 @ Surface, WH2 @ 1', WH3 @ Surface, WH3 @ 1', SP1 @ Surface, SP1 @ 1' - R, SP2 @ Surface, SP2 @ 1' - R, SP3 @ Surface, SP3 @ 2', SP4 @ Surface, SP4 @ 2' - R, SP5 @ Surface, SP5 @ 2' - R, SP6 @ Surface, SP6 @ 3', SP7 @ Surface, and SP7 @ 2') were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the horizontal extent of impacted soil was adequately defined. Impacted soil did not extend vertically beyond two (2) feet below ground surface (bgs) in the areas characterized by sample points SP3 and SP7 or beyond three (3) feet bgs in the area characterized by sample point SP6. However, additional vertical delineation beyond the point of refusal was required in the areas characterized by sample points SP1, SP2, SP4, and SP5.

On June 15, 2022, Etech utilized a backhoe to advance a series of delineation trenches in the areas characterized by sample points SP1, SP2, SP4, and SP5 in an effort to further investigate the vertical extent of impacted soil. During the advancement of the delineation trenches, soil samples were collected and field-screened for the presence of VOCs utilizing olfactory/visual senses and/or concentrations of chloride utilizing a chloride test kit. The trenches were advanced in one (1) foot increments until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria.

Based on field observations and field test data, four (4) delineation soil samples (SP1 @ 3', SP2 @ 3', SP4 @ 4', and SP5 @ 3') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the vertical extent of impacted soil was adequately defined and did not extend beyond three (3) feet bgs in the areas characterized by sample points SP1, SP2, and SP5 or beyond four (4) feet bgs in the area characterized by sample point SP4.

6.0 REMEDIATION ACTIVITIES SUMMARY

On June 22, 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-approved surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and field test results suggested BTEX, TPH, and chloride concentrations were below the

applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. Pursuant to the NMOCD-approved *Alternative Sampling Plan*, representative five-point composite confirmation soil samples were collected every 50 linear feet from the excavation sidewalls and every 400 square feet from the floor of the excavated area to be submitted for laboratory analysis.

On June 22, 2022, Etech collected one (1) confirmation soil sample (WW1) from the sidewall of the excavated area. The soil sample was submitted 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. BTEX and TPH concentrations were also below the applicable laboratory method detection limit (MDL). The chloride concentration was 16.0 mg/kg.

On June 23, 2022, Etech collected three (3) confirmation soil samples (SW1, FL 1 @ 3', and FL 2 @ 3') 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 160 mg/kg in soil samples FL 1 @ 3' and FL 2 @ 3' to 400 mg/kg in soil sample SW1.

On June 28, 2022, Etech collected 13 confirmation soil samples (NW1, NW2, WW2, WW3, and FL 3 @ 2' through FS 11 @ 3') 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 NW1, NW2, WW2, FL 4 @ 2', FS 6 @ 2', FS 7 @ 2', FS 8 @ 3', FS 9 @ 3', and FS 10 @ 3' to 1,065 mg/kg in soil sample FS 11 @ 3'. TPH concentrations exceeded the NMOCD Closure Criterion in soil samples WW3, FL 3 @ 2', FL 5 @ 2', and FS 11 @ 3'. Chloride concentrations ranged from 48.0 mg/kg in soil samples WW2, FL 5 @ 2', and FS 11 @ 3' to 320 mg/kg in soil samples NW2 and FS 6 @ 2'.

On June 29, 2022, Etech collected four (4) confirmation soil samples (FS 12 @ 3' through FS 15 @ 3') 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 FS 14 @ 3' to 96.0 mg/kg in soil sample FS 12 @ 3'.

On June 30, 2022, Etech collected three (3) confirmation soil samples (WW4, FS 16 @ 3', and FS 17 @ 3') 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 64.0 mg/kg in soil sample FS 17 @ 3' to 80.0 mg/kg in soil samples WW4 and FS 16 @ 3'.

On July 1, 2022, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples WW3 and FL 5 @ 2'. Etech collected 14 confirmation soil samples (NW3, WW3A, FS 5 @ 3', and FS 18 @ 4' through FS 28 @ 3') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation 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 FS 21 @ 3' to 560 mg/kg in soil sample FS 18 @ 4'.

On July 5, 2022, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample FS 11 @ 3'. Etech collected five (5) confirmation soil samples (WW5, FS 11 @ 4', FS 29 @ 3', FS 30 @ 4.5', and FS 31 @ 4.5') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in soil sample FS 31 @ 4.5' to 816 mg/kg in soil sample FS 30 @ 4.5', which exceeded the NMOCD Closure Criterion.

On July 6, 2022, Etech collected seven (7) confirmation soil samples (FS 32 @ 3' through FL 38 @ 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 48.0 mg/kg in soil sample FL 37 @ 6' to 368 mg/kg in soil sample FS 33 @ 3'.

On July 7, 2022, Etech collected seven (7) confirmation soil samples (FL 39 @ 3' through FL 45 @ 3.5') 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 41 @ 3' to 192 mg/kg in soil sample FL 40 @ 3'.

On July 8, 2022, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample FS 30 @ 4.5'. Etech collected nine (9) confirmation soil samples (EW3, FS 30 @ 5 1/2', and FS 46 @ 5' through FS 52 @ 2') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in soil sample FS 52 @ 2' to 288 mg/kg in soil sample EW3.

On July 11, 2022, Etech collected four (4) confirmation soil samples (EW1, EW2, FS 53 @ 4.5', and FS 54 @ 2.5') 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, 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 144 mg/kg in soil sample EW2 to 416 mg/kg in soil sample EW1.

On July 12, 2022, Etech collected four (4) confirmation soil samples (NW4, NW5, EW4, and EW5) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 144 mg/kg in soil sample EW2 to 416 mg/kg in soil sample EW1.

On July 13, 2022, Etech collected four (4) confirmation soil samples (WW6B, FS 55 @ 1.5', FS 56 @ 2', and FS 59 @ 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, 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 32.0 mg/kg in soil samples WW6B, FS 55 @ 1.5', and FS 59 @ 1.5' to 144 mg/kg in soil sample FS 56 @ 2'.

On July 14, 2022, Etech collected three (3) confirmation soil samples (FS 57 @ 3', FS 58 @ 3', and FS 61 @ 3.5') 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 112 mg/kg in soil sample FS 58 @ 3' to 352 mg/kg in soil sample FS 57 @ 3'.

On July 15, 2022, Etech collected five (5) confirmation soil samples (FS 60 @ 3.5', FS 62 @ 3.5', FS 63 @ 1', FS 64 @ 2', and FS 67 @ 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 48.0 mg/kg in soil sample FS 63 @ 1' to 224 mg/kg in soil sample FS 62 @ 3.5'.

On July 18, 2022, Etech collected five (5) confirmation soil samples (WW7, FS 65 @ 4.5', FS 66 @ 6.5', FS 68 @ 3.5', and FS 70 @ 1') 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 128 mg/kg in soil sample FS 70 @ 1' to 448 mg/kg in soil sample FS 68 @ 3.5'.

On July 20, 2022, Etech collected 11 confirmation soil samples (FS 69 @ 2' and FS 71 @ 4.5' through FS 80 @ 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 32.0 mg/kg in soil sample FS 79 @ 2' to 448 mg/kg in soil sample FS 77 @ 5.5'.

On July 21, 2022, Etech collected nine (9) confirmation soil samples (WW8 and FS 81 @ 2' through FS 88 @ 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 64.0 mg/kg in soil sample FS 81 @ 2' to 432 mg/kg in soil sample FS 84 @ 5'.

On July 22, 2022, Etech collected 10 confirmation soil samples (EW6 through EW9, SW2, SW3, and FS 89 @ 2' through FS 92 @ 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 concentrations were below the NMOCD Closure Criteria, the NMOCD Reclamation Standard, and the laboratory MDL. TPH concentrations ranged from less than the laboratory MDL in soil samples EW8, EW9, SW2, FS 89 @ 2', FS 90 @ 2', FS 91 @ 2', and FS 92 @ 2' to 422 mg/kg in soil sample SW3, which exceeded the NMOCD Closure Criterion. Chloride concentrations ranged from 48.0 mg/kg in soil sample EW7 to 784 mg/kg in soil sample FS 91 @ 2', which exceeded the NMOCD Closure Criterion.

On July 26, 2022, Etech collected 10 confirmation soil samples (NW6, NW7, and FS 93 @ 3' through FS 100 @ 1') 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 were below the laboratory MDL in a majority of the soil samples, with the exception of sample SW3, which exhibited a concentration of 196 mg/kg and exceeded the NMOCD Closure Criterion. Chloride concentrations ranged from less than the laboratory MDL in soil sample FS 99 @ 4' to 576 mg/kg in soil sample NW7.

On July 27, 2022, Etech collected two (2) confirmation soil samples (FS 101 @ 1' and FS 102 @ 1') 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 were 48.0 mg/kg in soil sample FS 101 @ 1' and 64.0 mg/kg in soil sample FS 102 @ 1'.

On July 28, 2022, Etech collected 17 confirmation soil samples (FS 103 @ 1' through FS 119 @ 1') 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 less than the laboratory MDL in soil samples FS 107 @ 2.5' FS 110 @ 1.5' and FS 117 @ 1' to 128 mg/kg in soil sample FS 118 @ 1'.

On July 29, 2022, Etech collected 11 confirmation soil samples (FS 120 @ 1' through FS 130 @ 1') 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 less than the laboratory MDL in soil sample FS 125 @ 4' to 480 mg/kg in soil sample FS 130 @ 1'.

On August 2, 2022, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples NW6, SW3, and FS 91 @ 2'. Etech collected 10 confirmation soil samples (NW6A, SW3A, WW9, FS 91 @ 3', and FS 131 @ 3' through FS 136 @ 2') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL, with the exception of soil sample SW3A, which exhibited a TPH concentration of 12.4 mg/kg. Chloride concentrations ranged from 32.0 mg/kg in soil sample FS 134 @ 1' to 576 mg/kg in soil sample FS 132 @ 6'.

On August 4, 2022, Etech collected three (3) confirmation soil samples (WW10, FS 137 @ 3', and FS 138 @ 1') 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 80.0 mg/kg in soil sample FS 137 @ 3' to 400 mg/kg in soil sample FS 138 @ 1'.

On August 10, 2022, Etech collected 10 confirmation soil samples (NW8, EW10, EW11, and FS 139 @ 2' through FS 145 @ 3') 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 FS 144 @ 5' to 464 mg/kg in soil sample EW11.

On August 11, 2022, Etech collected six (6) confirmation soil samples (SW4, SW5, WW11, FS 146 @ 4.5', FS 147 @ 5', and FS 148 @ 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 64.0 mg/kg in soil sample FS 146 @ 4.5' to 416 mg/kg in soil sample FS 148 @ 2'.

On August 12, 2022, Etech collected four (4) confirmation soil samples (NW9, WW12, FS 149 @ 3', and FS 150 @ 3.5') 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, 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, with the exception of soil sample NW9, which exhibited a TPH concentration of 12.4 mg/kg. Chloride concentrations ranged from 112 mg/kg in soil sample FS 150 @ 3.5' to 208 mg/kg in soil samples WW12 and FS 149 @ 3'.

On August 16, 2022, Etech collected seven (7) confirmation soil samples (EW12, SW6, WW13, FS 151 @ 1', FS 152 @ 2', FS 154 @ 1', and FS 155 @ 4.5') 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, 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 32.0 mg/kg in soil sample FS 152 @ 2' to 528 mg/kg in soil samples WW13 and FS 154 @ 1'.

The final dimensions of the excavated area were approximately 460 feet in length, 14 to 318 feet in width, and 1.5 to 9 feet in depth. During the course of remediation activities, Etech transported approximately 11,262 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 9,968 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 release site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D.

7.0 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.

8.0 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 SWD Line release site.

9.0 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.

10.0 DISTRIBUTION

Mewbourne Oil Company

4801 Business Park Blvd.

Hobbs, NM 88240

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2

811 S. First Street

Artesia, NM 88210

Hobbs Field Office

New Mexico State Land Office

2827 North Dal Paso Street

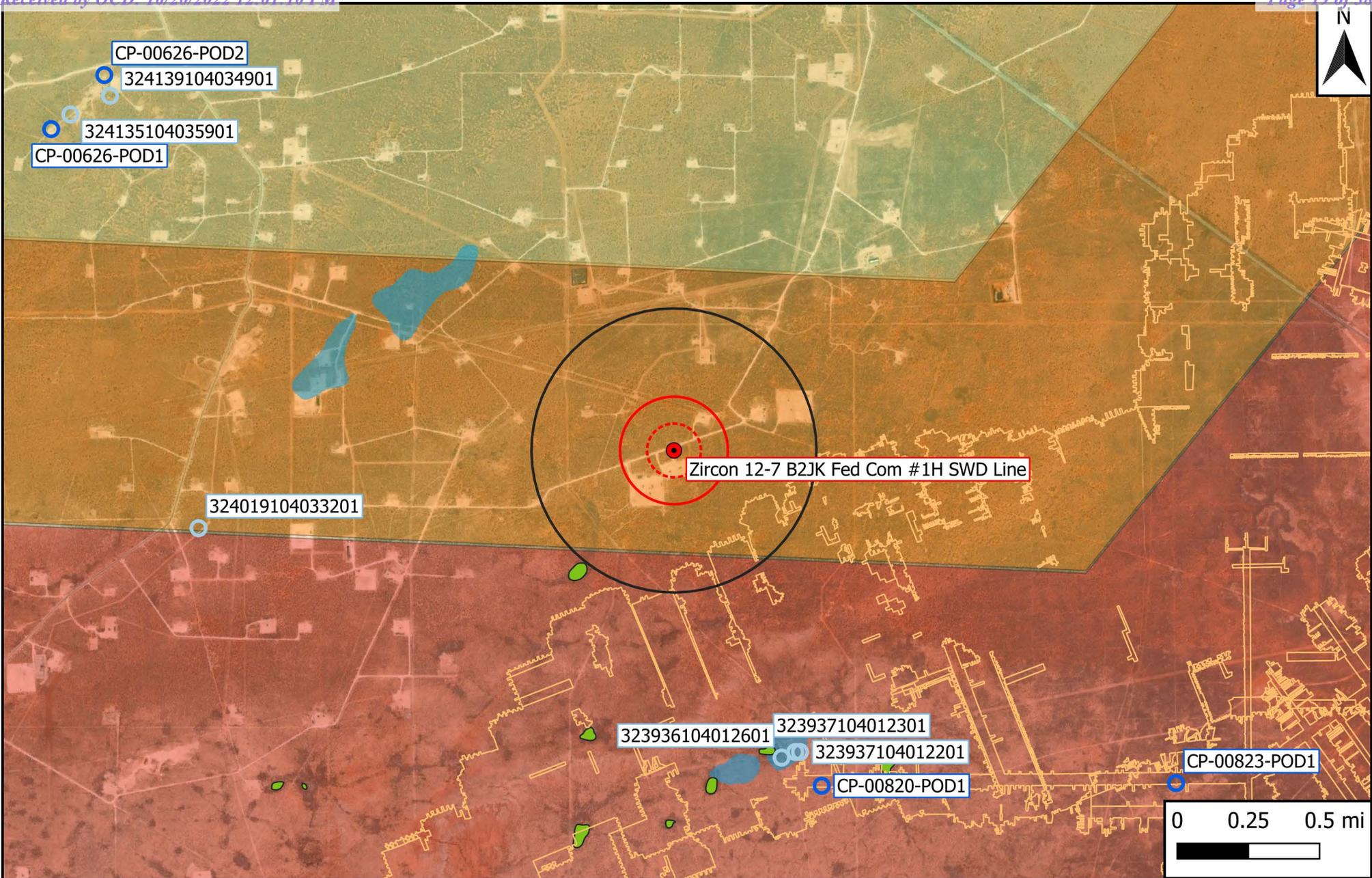
Suite 117

Hobbs, NM 88240

(Electronic Submission)

Figure 1 Topographic Map

Figure 2 Site Characterization Map

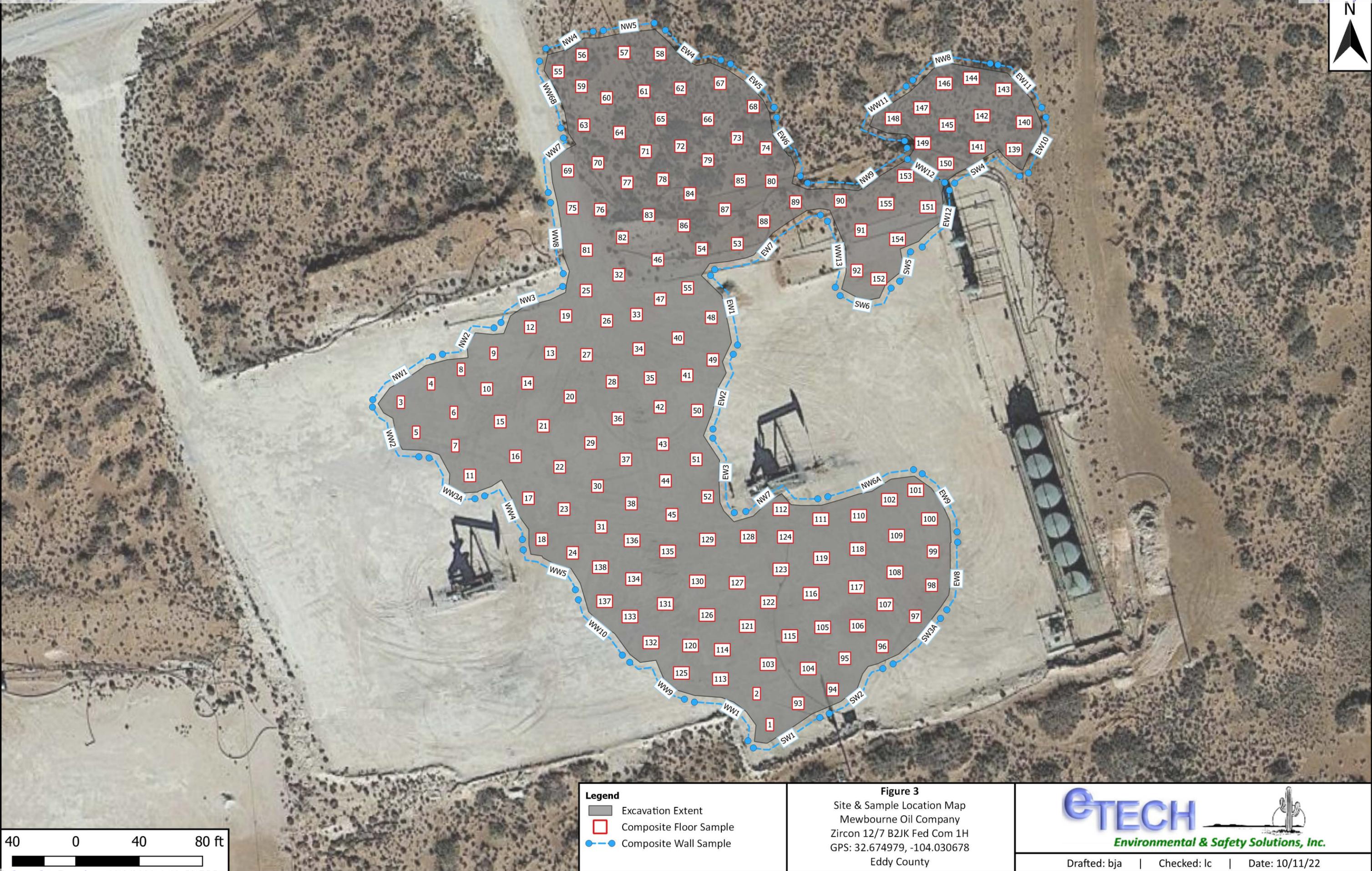


Legend		
	Site Location	
	Well - NMOSE	
	Well - USGS	
	Well - Exploratory/Monitor	
	Potash Mine Workings	
	1% Annual Flood Chance	
	Emergent/Forested Wetlands	
	Freshwater Pond/Lake	
	Karst Potential (Low/Med./High)	
	Riverine	
	500-Ft Radius	
	1,000-Ft Radius	
	0.5-Mi Radius	
	Municipal Boundary	

Figure 2
 Site Characterization Map
 Mewbourne Oil Company
 Zircon 12/7 B2JK Fed Com 1H
 GPS: 32.674979, -104.030678
 Eddy County



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 B2JK Fed Com 1H
 GPS: 32.674979, -104.030678
 Eddy County

Environmental & Safety Solutions, Inc.

Drafted: bja | Checked: lc | 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 B2JK Fed Com #1H SWD Line NMOCD Ref. #: nAPP2215352060											
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)
Delineation Samples											
NH1 @ Surface	5/31/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NH1 @ 1'	5/31/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EH1 @ Surface	5/31/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EH1 @ 1'	5/31/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EH2 @ Surface	5/31/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
EH2 @ 1'	5/31/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
EH3 @ Surface	5/31/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EH3 @ 1'	5/31/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SH1 @ Surface	5/31/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SH1 @ 1'	5/31/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WH1 @ Surface	5/31/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
WH1 @ 1'	5/31/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
WH2 @ Surface	5/31/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WH2 @ 1'	5/31/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WH3 @ Surface	5/31/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WH3 @ 1'	5/31/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SP1 @ Surface	5/31/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	25,000
SP1 @ 1' - R	5/31/2022	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	18,400
SP1 @ 3'	6/15/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SP2 @ Surface	5/31/2022	0	Excavated	<0.050	<0.300	<10.0	10.0	10.0	<10.0	10.0	31,000
SP2 @ 1' - R	5/31/2022	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,280
SP2 @ 3'	6/15/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SP3 @ Surface	5/31/2022	0	Excavated	<0.050	<0.300	<10.0	133	133	39.8	173	27,400
SP3 @ 2'	5/31/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
SP4 @ Surface	5/31/2022	0	Excavated	<0.050	<0.300	<10.0	95.0	95.0	43.0	138	22,000
SP4 @ 2' - R	5/31/2022	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,240
SP4 @ 4'	6/15/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SP5 @ Surface	5/31/2022	0	Excavated	<0.050	<0.300	<10.0	28.9	28.9	<10.0	28.9	27,600
SP5 @ 2' - R	5/31/2022	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,320
SP5 @ 3'	6/15/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SP6 @ Surface	5/31/2022	0	Excavated	<0.050	<0.300	<10.0	184	184	62.4	246	24,400
SP6 @ 3'	5/31/2022	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,170
SP7 @ Surface	5/31/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	38,000
SP7 @ 2'	5/31/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
Excavation Samples											
NW1	6/28/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
NW2	6/28/2022	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
NW3	7/1/2022	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
NW4	7/12/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
NW5	7/12/2022	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144

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 B2JK Fed Com #1H SWD Line NMOCD Ref. #: nAPP2215352060												
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)	
NW6	7/26/2022	0-1.5	Excavated	<0.050	<0.300	<10.0	91.9	91.9	104	196	400	
NW6A	8/2/2022	0-1.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-	
NW7	7/26/2022	0.5-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	576	
NW8	8/10/2022	0.5-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0	
NW9	8/12/2022	0.5-4	In-Situ	<0.050	<0.300	<10.0	12.4	12.4	<10.0	12.4	160	
EW1	7/11/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416	
EW2	7/11/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144	
EW3	7/8/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288	
EW4	7/12/2022	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0	
EW5	7/12/2022	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0	
EW6	7/22/2022	0-3	In-Situ	<0.050	<0.300	<10.0	11.5	11.5	13.7	25.2	80.0	
EW7	7/22/2022	0.5-4	In-Situ	<0.050	<0.300	<10.0	10.5	10.5	<10.0	10.5	48.0	
EW8	7/22/2022	0.5-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128	
EW9	7/22/2022	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272	
EW10	8/10/2022	0.5-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144	
EW11	8/10/2022	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464	
EW12	8/16/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0	
SW1	6/23/2022	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400	
SW2	7/22/2022	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0	
SW3	7/22/2022	0.5-4.5	Excavated	<0.050	<0.300	<10.0	351	351	71.2	422	304	
SW3A	8/2/2022	0.5-4.5	In-Situ	-	-	<10.0	<10.0	<20.0	12.4	12.4	-	
SW4	8/11/2022	0.5-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0	
SW5	8/11/2022	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192	
SW6	8/16/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0	
WW1	6/22/2022	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
WW2	6/28/2022	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0	
WW3	6/28/2022	0-3	Excavated	<0.050	<0.300	<10.0	57.1	57.1	601	658	80.0	
WW3A	7/1/2022	0-3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-	
WW4	6/30/2022	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0	
WW5	7/5/2022	0.5-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400	
WW6B	7/13/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0	
WW7	7/18/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160	
WW8	7/21/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0	
WW9	8/2/2022	0.5-5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368	
WW10	8/4/2022	0.5-5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320	
WW11	8/11/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0	
WW12	8/12/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208	
WW13	8/16/2022	0-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528	
FL 1 @ 3'	6/23/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160	
FL 2 @ 3'	6/23/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160	
FL 3 @ 2'	6/28/2022	2	In-Situ	<0.050	<0.300	<10.0	24.0	24.0	27.0	51.0	176	

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 B2JK Fed Com #1H SWD Line NMOCD Ref. #: nAPP2215352060												
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 4 @ 2'	6/28/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176	
FL 5 @ 2'	6/28/2022	2	Excavated	<0.050	<0.300	<10.0	10.9	10.9	471	482	48.0	
FS 5 @ 3'	7/1/2022	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-	
FS 6 @ 2'	6/28/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320	
FS 7 @ 2'	6/28/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0	
FS 8 @ 3'	6/28/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160	
FS 9 @ 3'	6/28/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256	
FS 10 @ 3'	6/28/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256	
FS 11 @ 3'	6/28/2022	3	Excavated	<0.050	<0.300	<10.0	262	262	803	1,070	48.0	
FS 11 @ 4'	7/5/2022	4	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-	
FS 12 @ 3'	6/29/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0	
FS 13 @ 3'	6/29/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0	
FS 14 @ 3'	6/29/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0	
FS 15 @ 3'	6/29/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0	
FS 16 @ 3'	6/30/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0	
FS 17 @ 3'	6/30/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0	
FS 18 @ 4'	7/1/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560	
FS 19 @ 3'	7/1/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0	
FS 20 @ 3'	7/1/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240	
FS 21 @ 3'	7/1/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
FS 22 @ 3'	7/1/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112	
FS 23 @ 3'	7/1/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112	
FS 24 @ 3'	7/1/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0	
FS 25 @ 3'	7/1/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112	
FS 26 @ 3'	7/1/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400	
FS 27 @ 3'	7/1/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400	
FS 28 @ 3'	7/1/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432	
FS 29 @ 3'	7/5/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384	
FS 30 @ 4.5'	7/5/2022	4.5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	816	
FS 30 @ 5 1/2'	7/8/2022	5.5	In-Situ	-	-	-	-	-	-	-	208	
FS 31 @ 4.5'	7/5/2022	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0	
FS 32 @ 3'	7/6/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176	
FS 33 @ 3'	7/6/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368	
FS 34 @ 3'	7/6/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144	
FS 35 @ 3'	7/6/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144	
FS 36 @ 4'	7/6/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112	
FL 37 @ 6'	7/6/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0	
FL 38 @ 5'	7/6/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192	
FL 39 @ 3'	7/7/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160	
FL 40 @ 3'	7/7/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192	
FL 41 @ 3'	7/7/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0	

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 B2JK Fed Com #1H SWD Line NMOCD Ref. #: nAPP2215352060											
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 42 @ 3'	7/7/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 43 @ 3'	7/7/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 44 @ 2.5'	7/7/2022	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 45 @ 3.5'	7/7/2022	3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FS 46 @ 5'	7/8/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 47 @ 3'	7/8/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 48 @ 2'	7/8/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 49 @ 2'	7/8/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 50 @ 2'	7/8/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 51 @ 2'	7/8/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 52 @ 2'	7/8/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 53 @ 4.5'	7/11/2022	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FS 54 @ 2.5'	7/11/2022	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FS 55 @ 1.5'	7/13/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 56 @ 2'	7/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 57 @ 3'	7/14/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FS 58 @ 3'	7/14/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 59 @ 1.5'	7/13/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 60 @ 3.5'	7/15/2022	3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS 61 @ 3.5'	7/14/2022	3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 62 @ 3.5'	7/15/2022	3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FS 63 @ 1'	7/15/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 64 @ 2'	7/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS 65 @ 4.5'	7/18/2022	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FS 66 @ 6.5'	7/18/2022	6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FS 67 @ 2'	7/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 68 @ 3.5'	7/18/2022	3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FS 69 @ 2'	7/20/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 70 @ 1'	7/18/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FS 71 @ 4.5'	7/20/2022	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FS 72 @ 9'	7/20/2022	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 73 @ 2'	7/20/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FS 74 @ 3.5'	7/20/2022	3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FS 75 @ 2'	7/20/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
FS 76 @ 2'	7/20/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FS 77 @ 5.5'	7/20/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FS 78 @ 5.5'	7/20/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FS 79 @ 2'	7/20/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 80 @ 2'	7/20/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 81 @ 2'	7/21/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 82 @ 2'	7/21/2022	2	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 B2JK Fed Com #1H SWD Line NMOCD Ref. #: nAPP2215352060											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FS 83 @ 2'	7/21/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 84 @ 5'	7/21/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
FS 85 @ 2'	7/21/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 86 @ 2'	7/21/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS 87 @ 2'	7/21/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FS 88 @ 2'	7/21/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 89 @ 2'	7/22/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS 90 @ 2'	7/22/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FS 91 @ 2'	7/22/2022	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	784
FS 91 @ 3'	8/2/2022	3	In-Situ	-	-	-	-	-	-	-	48.0
FS 92 @ 2'	7/22/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 93 @ 3'	7/26/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 94 @ 1'	7/26/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 95 @ 1'	7/26/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 96 @ 1'	7/26/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 97 @ 1'	7/26/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 98 @ 5.5'	7/26/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS 99 @ 4'	7/26/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FS 100 @ 1'	7/26/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 101 @ 1'	7/27/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 102 @ 1'	7/27/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 103 @ 1'	7/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 104 @ 4.5'	7/28/2022	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 105 @ 1'	7/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 106 @ 3'	7/28/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS 107 @ 2.5'	7/28/2022	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FS 108 @ 3'	7/28/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 109 @ 1'	7/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 110 @ 1.5'	7/28/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FS 111 @ 1'	7/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 112 @ 1'	7/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 113 @ 1'	7/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 114 @ 3'	7/28/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 115 @ 3'	7/28/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 116 @ 3'	7/28/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS 117 @ 1'	7/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FS 118 @ 1'	7/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FS 119 @ 1'	7/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 120 @ 1'	7/29/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FS 121 @ 4'	7/29/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 122 @ 5'	7/29/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0

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 B2JK Fed Com #1H SWD Line NMOCD Ref. #: nAPP2215352060												
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600	
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600	
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl	
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)	
FS 123 @ 1'	7/29/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160	
FS 124 @ 1'	7/29/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0	
FS 125 @ 4'	7/29/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0	
FS 126 @ 1'	7/29/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256	
FS 127 @ 4'	7/29/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0	
FS 128 @ 4'	7/29/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
FS 129 @ 1'	7/29/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304	
FS 130 @ 1'	7/29/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480	
FS 131 @ 3'	8/2/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128	
FS 132 @ 6'	8/2/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	576	
FS 133 @ 4'	8/2/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0	
FS 134 @ 1'	8/2/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0	
FS 135 @ 1'	8/2/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144	
FS 136 @ 2'	8/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192	
FS 137 @ 3'	8/4/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0	
FS 138 @ 1'	8/4/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400	
FS 139 @ 2'	8/10/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176	
FS 140 @ 2'	8/10/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160	
FS 141 @ 4'	8/10/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0	
FS 142 @ 5'	8/10/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112	
FS 143 @ 2'	8/10/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288	
FS 144 @ 5'	8/10/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0	
FS 145 @ 3'	8/10/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112	
FS 146 @ 4.5'	8/11/2022	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0	
FS 147 @ 5'	8/11/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304	
FS 148 @ 2'	8/11/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416	
FS 149 @ 3'	8/12/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208	
FS 150 @ 3.5'	8/12/2022	3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112	
FS 151 @ 1'	8/16/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0	
FS 152 @ 2'	8/16/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0	
FS 154 @ 1'	8/16/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528	
FS 155 @ 4.5'	8/16/2022	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176	

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 B2JK Fed Com 1H
 GPS: 32.674979, -104.030678
 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

UTMNAD83 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

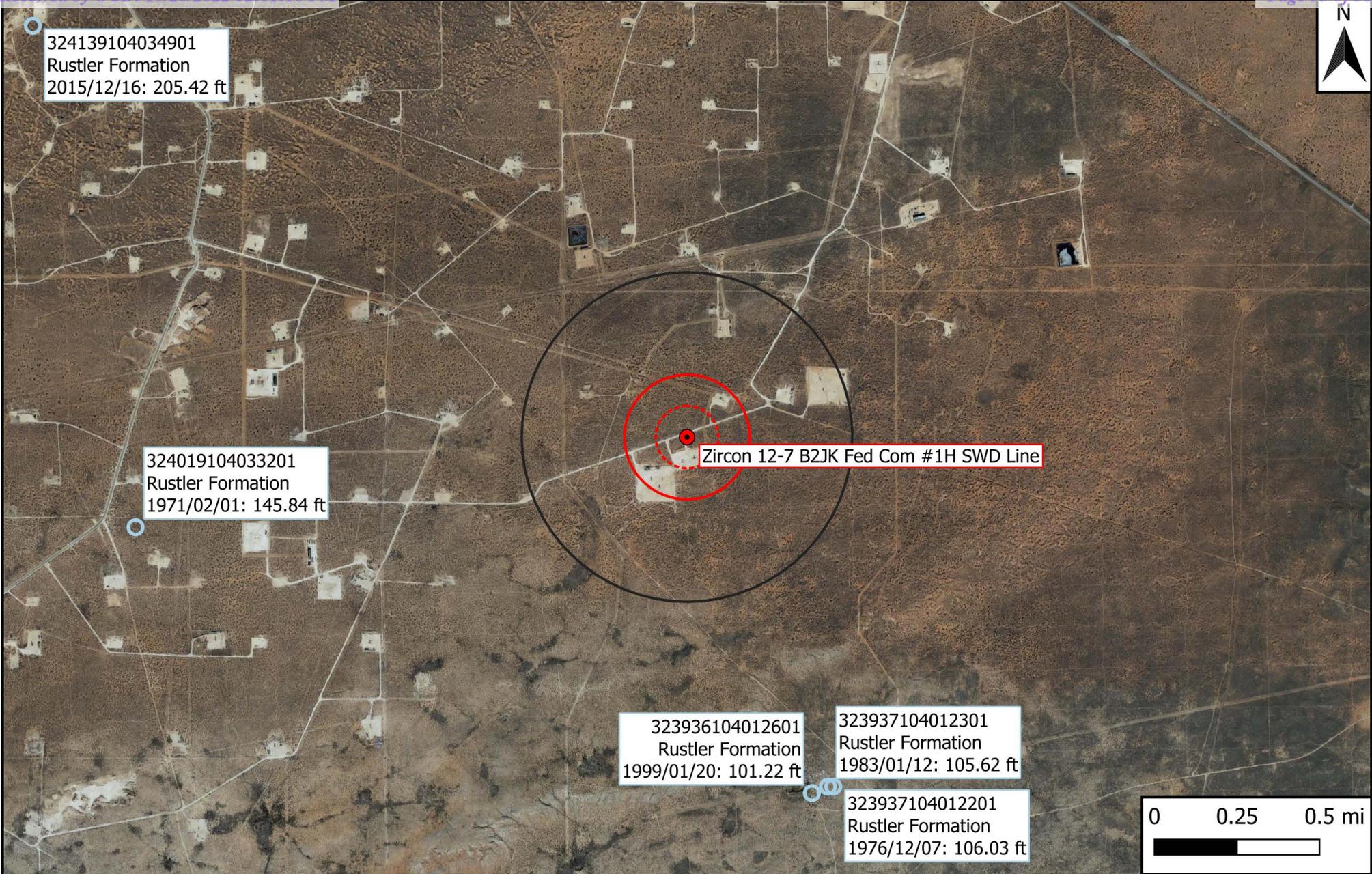
		(quarters are 1=NW 2=NE 3=SW 4=SE)			(NAD83 UTM in meters)
Well Tag	POD Number	(quarters are smallest to largest)	Q64 Q16 Q4	Sec Tws Rng	X Y
CP 00820	POD1		2 4 13	19S 29E	591713 3613870*

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 B2JK Fed Com 1H
 GPS: 32.674979, -104.030678
 Eddy County



Drafted: bja

Checked: jwl

Date: 8/25/22



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USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

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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

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[Tab-separated data](#)

[Graph of data](#)

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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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Title: Groundwater for USA: Water Levels

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0.27 0.24 nadww01



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Agency code = usgs
 site_no list =
 • 323936104012601

Minimum number of levels = 1
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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 (N9999OTHER) national aquifer.
 This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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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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Agency code = usgs

site_no list =

- 323937104012201

Minimum number of levels = 1

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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 (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	123.50			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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Agency code = usgs
 site_no list =

- 324019104033201

Minimum number of levels = 1
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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 (N9999OTHER) national aquifer.
 This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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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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Agency code = usgs
 site_no list =

- 324139104034901

Minimum number of levels = 1
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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 (N9999OTHER) national aquifer.
 This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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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](#)

Page Last Modified: 2022-10-12 01:54:46 EDT

0.31 0.24 nadww01

Appendix B

Field Data & Soil Profile Logs



Sample Log

Date: 5/31/22

Project: Zircon 12/7 B2JK Fed Com 1H

Project Number: 16072 Latitude: 32.674979 Longitude: -104.030678

Sample ID	PID/Odor	Chloride Conc.		GPS
NH1 @ surface	-	2.0	188	
NH1 @ 1'	-	1.8	160	
EH1 @ surface	-	2.0	188	
EH1 @ 1'	-	1.6	136	
EH2 @ surface	-	2.4	244	
EH2 @ 1'	-	1.8	160	
EH3 @ surface	-	2.2	216	
EH3 @ 1'	-	1.6	136	
SH1 @ surface	-	2.0	188	
SH1 @ 1'	-	1.4	116	
WH1 @ surface	-	3.6	488	
WH1 @ 1'	-	2.0	188	
WH2 @ surface	-	2.0	188	
WH2 @ 1'	-	1.8	160	
WH3 @ surface	-	2.4	244	
WH3 @ 1'	-	1.8	160	
SP1 @ surface	-	8.0 H.S.	14052	
SP1 @ 1' -R	-	7.2 H.S.	10052	Refusal
SP2 @ surface	-	6.0 H.S.	6356	
SP2 @ 1' -R	-	6.0 H.S.	6356	Refusal
SP3 @ surface	-	8.0 H.S.	14052	
SP3 @ 1'	-	8.0	2584	
SP4 @ surface	-	7.8 H.S.	12864	
SP4 @ 1'	-	4.8	832	
SP5 @ surface	-	8.0 H.S.	14052	
SP5 @ 1'	-	4.0	592	
SP6 @ surface	-	8.0 H.S.	14052	
SP6 @ 1'	-	8.0	2584	
SP7 @ surface	-	7.8 H.S.	12864	
SP7 @ 1'	-	8.0	2584	
SP3 @ 2'	-	1.8	160	
SP4 @ 2' -R	-	6.0	1292	Refusal
SP5 @ 2' -R	-	8.0	2584	Refusal
SP6 @ 2'	-	8.0	2584	
SP7 @ 2'	-	2.0	188	
SP6 @ 3'	-	3.6	488	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas



Sample Log

Date: 6/22/22

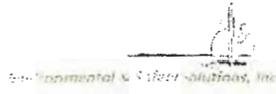
Project: Zircon 12/7 B2JK Fed Com 1H
Project Number: 16072 Latitude: 32.674979 Longitude: -104.030678

Sample ID	PID/Odor	Chloride Conc.	GPS
WW1	-	212 (2.2)	
FL1@3'	-	180 (2.0)	
SW1	-	444 (3.4)	
FL2@3'	-	212 (2.2)	
WW2	-	444	
WW3 ^{TPH} WW3A	-	816 · 444 · 316	
NW1	-	816 · 488	
FS3@2'	-	488	
FS4@2'	-	400	
FS5@2' TPH @3'	-	444 · 356	
FS6@2'	-	588	
FS7@2'	-	588	
NW2	-	2036 · 756 · 588	
FS8@3'	-	536	
FS9@3'	-	536	
FS10@3'	-	488	
FS11@3' @4' TPH @1/2	-	444	
FS12@3'	-	316	
FS13@3'	-	356	
FS14@3'	-	356	
FS15@3'	-	536	
WW4	-	2188 · 816 · 444	
FS16@3'	-	488	
FS17@3'	-	444	
NW3	-	1896 · 536	
FS18@3' @4'	-	816 · 536	
FS19@3'	-	152	
FS20@3'	-	180	
FS21@3'	-	128	
FS22@3'	-	180	
FS23@3'	-	400	
FS24@3'	-	<128	
FS25@3'	-	316	
FS26@3'	-	588	
FS27@3'	-	444	
FS28@3'	-	536	

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: 7-5-22

Project: Zircon 12/7 B2JK Fed Com 1H

Project Number: 11072 Latitude: 32.674979 Longitude: -104.030678

Sample ID	PID/Odor	Chloride Conc.	GPS
FS29e3	-	488	
FS30e3e4 1/2 - 5 1/2	-	1896-588-552	
FS31e3e4 1/2	-	1444-356	
WW5 ^{Left} WW5 ^{Right}	-	536-640-588	
FS32e3	-	280	
FS33e3	-	400	
FS34e3	-	316	
FS35e3	-	280	
FS36e3e4	-	696-212	
FS37e3e5e6	-	22552-1348-212	
FS38e3e5	-	2036-316	
FS39e3	-	296	
FS40e3	-	372	
FS41e3	-	232	
FS42e3	-	232	
FS43e3	-	504	
FS44e2 1/2	-	120	
FS45e2 1/2 e3 1/2	-	1588-456	
EW1	-	8624	
EW2	-	908	
EW3	-	456	
FS46e2e5	-	7972-296	
FS47e2e3	-	716-232	
FS48e2	-	172	
FS49e2	-	336	
FS50e2	-	456	
FS51e2	-	372	
FS52e2	-	200	
EW1 EW1 ^{Left} EW1 ^{Right}	-EW1	4684(488) 1813-1404-1096	
EW2 ^{Left} EW2 ^{Right}	-EW2	4684(280)(416)-456	
FS53e4 1/2	-	536	
FS54e2 1/2	-	244	
NW4	-	756-316	
NW4 NWS	-	536	
EW4	-	1652-1096-1020-356	
EW5	-	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

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



600 ppm
class

Sample Log

Date: 7/13/22

Project: Zircon 12-7 B2JK Fed Com #1H SWD Line
Project Number: 16072 Latitude: 32.675798 Longitude: -104.03071

swed *refused*

Sample ID	PID/Odor	Chloride Conc.		GPS
NW6	—	5.8	1176	✓
NW6b	—	2.4	444	✗
FS 55 @ 1.5'	—	3.8	536	✗
FS 56 @ 2'	—	2.8	216	✗
FS 57 @ 2'	—	5.0	840	✓
FS 58 @ 2'	—	4.4	696	✓
FS 59 @ 1.5'	—	3.8	536	✗
FS 60 @ 2'	—	6.0	1260	✗ 7/14/22
NW6	—	6.8	1652	
NW7 (Kenoma)	—	7.6	2184	
EW6	—	6.4	1444	
Floor brush	—	6.4	1444	
FS 60 @ 3'	—	5.0	1200 530	✓
FS 61 @ 3'	—	7.2	1872 640	✗
FS 62 @ 3'	—	7.4	2036	✓
FS 58 @ 3'	—	3.0	504	✗
FS 57 @ 3'	—	3.6	504	✗
FS 61 @ 3.5'	—	3.0	372	✗
FS 60 @ 3.5'	—	3.2	416	✗ 7/15/22
FS 67 @ 3.5'	—	3.2	416	✗
NW7 1/2 sample	—	3.2	416	✓
FS 63 @ 1'	—	3.4	456	✗
FS 64 @ 1'	—	4.2	656	✓
FS 65 @ 1'	—	9.0	22512	✓
FS 66 @ 1'	—	9.0	22512	✓
FS 67 @ 2'	—	3.0	372	✗
FS 68 @ 2'	—	7.0	22512	✓
FS 64 @ 2'	—	3.2	416	✗
FS 65 @ 2'	—	7.6	2328	✓
FS 66 @ 2'	—	8.2	22512	✓
FS 68 @ 2'	—	7.4	2160	✓
FS 65 @ 3.5'	—	5.0	908	✓ 7/18/22
FS 66 @ 3.5'	—	4.4	716	✓
FS 69 @ 3.5'	—	3.8	552	✗

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewalk = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Area



EW6 & EW7

Sample Log

Date: 7/18/22

Project: Zircon 12-7 B2JK Fed Com #1H SWD Line
Project Number: 16072 Latitude: 32.675798 Longitude: -104.03071

NW6 1444 Middle # Road

Sample ID	PID/Odor	Chloride Conc.	GPS
FS 65 2' 2'	-	3.0 372	X
FS 66 2' 2'	-	1.2 70	"
FS 67 2' 2'	-	4.0 70	"
FS 68 2' 2'	-	3.6 504	*
FS 69 2' 2'	-	4.6 876	/
FS 70 2' 2'	-	5.8 1216	/
FS 71 2' 2'	-	3.6 504	*
WS 7 3/4 C	-	5.4 18054	/
WS 7 3/4 D	-	9.0 604	/
WS 7	-	3.4 552	*
WS 8 25' 25'	-	7936 7936-1896-280	
FS 69e2'	-	152	
FS 70e2'	-	128	
FS 71e2'e3'e4 1/2'	-	5060-696-444	
FS 72e2'e5'e6'e9'	-	13252-13284-9244-180	
FS 73e2'	-	488	
FS 74e2'e3 1/2'	-	2360-588	
FS 75e2'	-	488	
FS 76e2'	-	356	
FS 77e2'e5 1/2'	-	10076	
FS 78e2'e5 1/2'	-	6752	
FS 79e2'	-	128	
FS 80e2'	-	152	
FS 81e2'	-	280	
FS 82e2'	-	444	
FS 83e2'	-	316	
FS 84e2'e5'	-	9244-400	
FS 85e2'	-	152	
FS 86e2'	-	244	
FS 87e2'	-	284	
FS 88e2'	-	320	
FS 89e2'	-	320	
FS 90e2'	-	356	
FS 91e2'	-	488	
FS 92e2'	-	588	

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

zone
69-79



Sample Log

Date: _____

Project: Zircon 12/17 B23K Fed Com IH

Project Number: 16072 Latitude: 32.675798 Longitude: -104.03071

Sample ID	PID/Odor	Chloride Conc.	GPS
EW6	-	220	
EW7	-	192	
EW8	-	356	
EW9	-	588	
SW2	-	440	
SW3	-	316	
NW6	-	536	
NW7	-	588	
FS93e 0.2 1/2'	-	2080 536	
FS94e	-	284	
FS95e	-	320	
FS96e	-	192	
FS97e	-	192	
FS98e 0.5 1/2'	-	6184 220	
FS99e 0.4'	-	1576 396	
FS100e	-	252	
FS101e	-	168	
FS102e	-	284	
FS103e	-	252	
FS104e 0.4 1/2'	-	1576 356	
FS105e	-	192	
FS106e e3	-	1472 284	
FS107e e2 1/2'	-	700 356	
FS108e e3	-	892 396	
FS109e	-	252	
FS110e 1/2'	-	356 356	
FS111e	-	252	
FS112e	-	192	
FS113e	-	396	
FS114e e3	-	2804 144	
FS115e e3	-	2804 284	
FS116e e3	-	2412 252	
FS117e	-	220	
FS118e	-	356	
FS119e	-	252	
NW9	-	2236 2080-824-824-488	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas



Sample Log

Project: Zircon 12/7B2 JK Fed Com 17
 Project Number: 16072

Date: 7-29-22
 Latitude: 32.675798 Longitude: -104.03071

Sample ID	PID/Odor	Chloride Conc.	GPS
FS 120e1	-	252	FS 127e3 2804
FS 121e1e3e4	-	1688-700-588	WW11 296
FS 122e1e3e5	-	1030-1940-220	
FS 123e1	-	320	
FS 124e1	-	320	
FS 125e1e4	-	4192-192	
FS 126e1	-	320	
FS 127e1e4	-	1688-588	
FS 128e1e4	-	1036-320	
FS 129e1	-	440	
FS 130e1	-	588	
NW6A	-	536	
SW3A	-	284	
FS 9e3	-	356	
FS 131e1e3	-	4192-284	
FS 132e1e4e6	-	1940-1196-536	
FS 133e1e4	-	2792-192	
FS 134e1	-	252	
FS 135e1	-	252	
FS 136e1e2	-	644-488	
WW10 WW10 1/2 2/2	-	2236-5240	
		2080-12076	
	396 ←	892-964-1036-964-488	
FS 137e1e3	-	824-488	
FS 138e1	-	488	
EW 10	-	220	
EW 11	-	536	
SW 4	-	892-356	
NW 8	-	<120	
FS 139e2	-	536	
FS 140e2	-	396	
FS 141e2e4	-	1116-168	
FS 142e2e4e5	-	2412-700-192	
FS 143e2	-	284	
FS 144e2e5	-	5696-192	
FS 145e2e3	-	700-168	

NW 9? Sample Point = SP #1 @ ## etc 2080 Test Trench = TT #1 @ ## Resamples = SP #1 @ 5b or SW #1b
 Floor = FL #1 etc Refusal = SP #1 @ 4'-R Stockpile = Stockpile #1
 Sidewall = SW #1 etc Soil intended to be Deferred = SP #1 @ 4' In-Situ GPS Sample Points, Center of Comp Areas



Soil Profile

Date: _____

Project: Zircon 12/7 B2JK Fed Com 1H

Project Number: 16072 Latitude: 32.674979 Longitude: -104.030678

Depth (ft. bgs)

Description

1	Caliche	First foot caliche, soil after that, hit more caliche 3'
2	Red dirt	
3	Red dirt	
4	Caliche	
5	Caliche	
6	Caliche	
7	Caliche dirt	
8		
9		
10		
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40		

Appendix C

Photographic Log

Photographic Log

Photo Number: 1	 <p>May 18, 2022 at 12:13:16 PM +32.674247,-104.032419</p>
Photo Direction: South-Southeast	
Photo Description: View of the affected area.	

Photo Number: 2	 <p>May 18, 2022 at 12:13:18 PM +32.675601,-104.030754</p>
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: Southwest	
Photo Description: View of the affected area.	

Photo Number: 6	
Photo Direction: Northwest	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 7	 <p>8/4/22, 9:41 AM +32.674676,-104.029932 ±5.00m 267° W</p>
Photo Direction: West	
Photo Description: View of the excavated area.	

Photo Number: 8	 <p>8/4/22, 9:41 AM +32.674973,-104.030122 ±10.00m 185° S</p>
Photo Direction: South	
Photo Description: View of the excavated area.	

Photographic Log

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

Photo Number: 10	
Photo Direction: East-Southeast	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 11	 <p>8/4/22, 9:45 AM +32.6724668, -104.030817 ±10.00m 143° SE</p>
Photo Direction: Southeast	
Photo Description: View of the excavated area.	

Photo Number: 12	 <p>8/4/22, 9:46 AM +32.674949, -104.030722 ±50.00m 212° SW</p>
Photo Direction: South-Southwest	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 13	
Photo Direction: East	
Photo Description: View of the excavated area.	

Photo Number: 14	
Photo Direction: South-Southeast	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 15	
Photo Direction: East-Southeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 16	
Photo Direction: South-Southeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log

Photo Number: 17	 <p>8/23/22, 2:06 PM +32.674770,-104.030816 ±5.00m 138° SE</p>
Photo Direction: Southeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 18	 <p>8/23/22, 2:06 PM +32.674508,-104.030688 ±5.00m 337° NW</p>
Photo Direction: North-Northwest	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log

Photo Number: 19	 <p>8/23/22, 2:07 PM +32.675842,-104.031003 ±5.00m 130° SE</p>
Photo Direction: Southeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 20	 <p>8/23/22, 2:07 PM +32.675937,-104.031057 ±10.00m 153° SE</p>
Photo Direction: South-Southeast	
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

June 02, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON 12/7

Enclosed are the results of analyses for samples received by the laboratory on 05/31/22 15:24.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: NH 1 @ SURFACE (H222294-01)

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	06/01/2022	ND	2.02	101	2.00	5.19	
Toluene*	<0.050	0.050	06/01/2022	ND	2.02	101	2.00	5.06	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.95	97.4	2.00	5.70	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.03	101	6.00	5.28	
Total BTEX	<0.300	0.300	06/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/02/2022	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	06/01/2022	ND	196	98.1	200	7.29	
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	194	97.2	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 73.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 73.3 % 59.5-142

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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: NH 1 @ 1' (H222294-02)

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	06/01/2022	ND	2.02	101	2.00	5.19	
Toluene*	<0.050	0.050	06/01/2022	ND	2.02	101	2.00	5.06	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.95	97.4	2.00	5.70	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.03	101	6.00	5.28	
Total BTEX	<0.300	0.300	06/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/02/2022	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	06/01/2022	ND	196	98.1	200	7.29	
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	194	97.2	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 75.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 76.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: EH 1 @ SURFACE (H222294-03)

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	06/01/2022	ND	2.02	101	2.00	5.19	
Toluene*	<0.050	0.050	06/01/2022	ND	2.02	101	2.00	5.06	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.95	97.4	2.00	5.70	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.03	101	6.00	5.28	
Total BTEX	<0.300	0.300	06/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/02/2022	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	06/01/2022	ND	196	98.1	200	7.29	
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	194	97.2	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 80.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: EH 1 @ 1' (H222294-04)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2022	ND	2.02	101	2.00	5.19	
Toluene*	<0.050	0.050	06/01/2022	ND	2.02	101	2.00	5.06	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.95	97.4	2.00	5.70	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.03	101	6.00	5.28	
Total BTEX	<0.300	0.300	06/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/02/2022	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	06/01/2022	ND	196	98.1	200	7.29	
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	194	97.2	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 78.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: EH 2 @ SURFACE (H222294-05)

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	06/01/2022	ND	2.02	101	2.00	5.19	
Toluene*	<0.050	0.050	06/01/2022	ND	2.02	101	2.00	5.06	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.95	97.4	2.00	5.70	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.03	101	6.00	5.28	
Total BTEX	<0.300	0.300	06/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/02/2022	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	06/01/2022	ND	196	98.1	200	7.29	
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	194	97.2	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 80.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: EH 2 @ 1' (H222294-06)

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	06/01/2022	ND	2.02	101	2.00	5.19	
Toluene*	<0.050	0.050	06/01/2022	ND	2.02	101	2.00	5.06	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.95	97.4	2.00	5.70	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.03	101	6.00	5.28	
Total BTEX	<0.300	0.300	06/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/02/2022	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	06/01/2022	ND	196	98.1	200	7.29	
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	194	97.2	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 77.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: EH 3 @ SURFACE (H222294-07)

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	06/01/2022	ND	2.02	101	2.00	5.19	
Toluene*	<0.050	0.050	06/01/2022	ND	2.02	101	2.00	5.06	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.95	97.4	2.00	5.70	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.03	101	6.00	5.28	
Total BTEX	<0.300	0.300	06/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/02/2022	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	06/01/2022	ND	196	98.1	200	7.29	
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	194	97.2	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 79.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: EH 3 @ 1' (H222294-08)

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	06/01/2022	ND	2.02	101	2.00	5.19	
Toluene*	<0.050	0.050	06/01/2022	ND	2.02	101	2.00	5.06	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.95	97.4	2.00	5.70	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.03	101	6.00	5.28	
Total BTEX	<0.300	0.300	06/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/02/2022	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	06/01/2022	ND	196	98.1	200	7.29	
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	194	97.2	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 79.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: SH 1 @ SURFACE (H222294-09)

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	06/01/2022	ND	2.02	101	2.00	5.19	
Toluene*	<0.050	0.050	06/01/2022	ND	2.02	101	2.00	5.06	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.95	97.4	2.00	5.70	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.03	101	6.00	5.28	
Total BTEX	<0.300	0.300	06/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/02/2022	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	06/01/2022	ND	196	98.1	200	7.29	
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	194	97.2	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 78.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 77.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: SH 1 @ 1' (H222294-10)

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	06/01/2022	ND	2.02	101	2.00	5.19	
Toluene*	<0.050	0.050	06/01/2022	ND	2.02	101	2.00	5.06	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.95	97.4	2.00	5.70	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.03	101	6.00	5.28	
Total BTEX	<0.300	0.300	06/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/02/2022	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	06/01/2022	ND	196	98.1	200	7.29	
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	194	97.2	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 79.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: WH 1 @ SURFACE (H222294-11)

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	06/01/2022	ND	2.02	101	2.00	5.19	
Toluene*	<0.050	0.050	06/01/2022	ND	2.02	101	2.00	5.06	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.95	97.4	2.00	5.70	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.03	101	6.00	5.28	
Total BTEX	<0.300	0.300	06/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	06/02/2022	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	06/01/2022	ND	196	98.1	200	7.29	
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	194	97.2	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 76.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 76.4 % 59.5-142

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Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: WH 1 @ 1' (H222294-12)

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	06/01/2022	ND	2.10	105	2.00	1.50	
Toluene*	<0.050	0.050	06/01/2022	ND	2.08	104	2.00	1.61	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.00	100	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.20	103	6.00	1.42	
Total BTEX	<0.300	0.300	06/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/02/2022	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	06/01/2022	ND	202	101	200	5.37	
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	182	91.2	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 92.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.9 % 59.5-142

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Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: WH 2 @ SURFACE (H222294-13)

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	06/01/2022	ND	2.10	105	2.00	1.50	
Toluene*	<0.050	0.050	06/01/2022	ND	2.08	104	2.00	1.61	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.00	100	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.20	103	6.00	1.42	
Total BTEX	<0.300	0.300	06/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/02/2022	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	06/01/2022	ND	202	101	200	5.37	
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	182	91.2	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 92.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: WH 2 @ 1' (H222294-14)

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	06/01/2022	ND	2.10	105	2.00	1.50	
Toluene*	<0.050	0.050	06/01/2022	ND	2.08	104	2.00	1.61	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.00	100	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.20	103	6.00	1.42	
Total BTEX	<0.300	0.300	06/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/02/2022	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	06/01/2022	ND	202	101	200	5.37	
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	182	91.2	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 87.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.5 % 59.5-142

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Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: WH 3 @ SURFACE (H222294-15)

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	06/01/2022	ND	2.10	105	2.00	1.50	
Toluene*	<0.050	0.050	06/01/2022	ND	2.08	104	2.00	1.61	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.00	100	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.20	103	6.00	1.42	
Total BTEX	<0.300	0.300	06/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/02/2022	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	06/01/2022	ND	202	101	200	5.37	
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	182	91.2	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 87.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: WH 3 @ 1' (H222294-16)

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	06/01/2022	ND	2.10	105	2.00	1.50	
Toluene*	<0.050	0.050	06/01/2022	ND	2.08	104	2.00	1.61	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.00	100	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.20	103	6.00	1.42	
Total BTEX	<0.300	0.300	06/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/02/2022	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	06/01/2022	ND	202	101	200	5.37	
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	182	91.2	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 93.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.3 % 59.5-142

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Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: SP 1 @ SURFACE (H222294-17)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2022	ND	2.10	105	2.00	1.50	
Toluene*	<0.050	0.050	06/01/2022	ND	2.08	104	2.00	1.61	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.00	100	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.20	103	6.00	1.42	
Total BTEX	<0.300	0.300	06/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25000	16.0	06/02/2022	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	06/01/2022	ND	202	101	200	5.37	
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	182	91.2	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 89.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.0 % 59.5-142

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Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: SP 1 @ 1' - R (H222294-18)

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	06/01/2022	ND	2.10	105	2.00	1.50	
Toluene*	<0.050	0.050	06/01/2022	ND	2.08	104	2.00	1.61	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.00	100	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.20	103	6.00	1.42	
Total BTEX	<0.300	0.300	06/01/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18400	16.0	06/02/2022	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	06/01/2022	ND	202	101	200	5.37	
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	182	91.2	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 91.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: SP 2 @ SURFACE (H222294-19)

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	06/01/2022	ND	2.10	105	2.00	1.50	
Toluene*	<0.050	0.050	06/01/2022	ND	2.08	104	2.00	1.61	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.00	100	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.20	103	6.00	1.42	
Total BTEX	<0.300	0.300	06/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	31000	16.0	06/02/2022	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	06/01/2022	ND	202	101	200	5.37	
DRO >C10-C28*	10.0	10.0	06/01/2022	ND	182	91.2	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 92.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: SP 2 @ 1' - R (H222294-20)

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	06/01/2022	ND	2.10	105	2.00	1.50	
Toluene*	<0.050	0.050	06/01/2022	ND	2.08	104	2.00	1.61	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.00	100	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.20	103	6.00	1.42	
Total BTEX	<0.300	0.300	06/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7280	16.0	06/02/2022	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	06/01/2022	ND	202	101	200	5.37	
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	182	91.2	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 91.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: SP 3 @ SURFACE (H222294-21)

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	06/01/2022	ND	2.10	105	2.00	1.50	
Toluene*	<0.050	0.050	06/01/2022	ND	2.08	104	2.00	1.61	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.00	100	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.20	103	6.00	1.42	
Total BTEX	<0.300	0.300	06/01/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	27400	16.0	06/02/2022	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	06/01/2022	ND	202	101	200	5.37	
DRO >C10-C28*	133	10.0	06/01/2022	ND	182	91.2	200	6.79	
EXT DRO >C28-C36	39.8	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 89.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: SP 3 @ 2' (H222294-22)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2022	ND	2.10	105	2.00	1.50	
Toluene*	<0.050	0.050	06/01/2022	ND	2.08	104	2.00	1.61	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.00	100	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.20	103	6.00	1.42	
Total BTEX	<0.300	0.300	06/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	06/02/2022	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	06/01/2022	ND	202	101	200	5.37	
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	182	91.2	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 96.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: SP 4 @ SURFACE (H222294-23)

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	06/01/2022	ND	2.10	105	2.00	1.50		
Toluene*	<0.050	0.050	06/01/2022	ND	2.08	104	2.00	1.61		
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.00	100	2.00	1.25		
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.20	103	6.00	1.42		
Total BTEX	<0.300	0.300	06/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	22000	16.0	06/02/2022	ND	416	104	400	3.77	QM-07	

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	06/01/2022	ND	202	101	200	5.37		
DRO >C10-C28*	95.0	10.0	06/01/2022	ND	182	91.2	200	6.79		
EXT DRO >C28-C36	43.0	10.0	06/01/2022	ND						

Surrogate: 1-Chlorooctane 79.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: SP 4 @ 2' - R (H222294-24)

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	06/01/2022	ND	2.10	105	2.00	1.50		
Toluene*	<0.050	0.050	06/01/2022	ND	2.08	104	2.00	1.61		
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.00	100	2.00	1.25		
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.20	103	6.00	1.42		
Total BTEX	<0.300	0.300	06/01/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2240	16.0	06/02/2022	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	06/01/2022	ND	202	101	200	5.37		
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	182	91.2	200	6.79		
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND						

Surrogate: 1-Chlorooctane 87.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: SP 5 @ SURFACE (H222294-25)

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	06/01/2022	ND	2.10	105	2.00	1.50	
Toluene*	<0.050	0.050	06/01/2022	ND	2.08	104	2.00	1.61	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.00	100	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.20	103	6.00	1.42	
Total BTEX	<0.300	0.300	06/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	27600	16.0	06/02/2022	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	06/01/2022	ND	202	101	200	5.37	
DRO >C10-C28*	28.9	10.0	06/01/2022	ND	182	91.2	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 95.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: SP 5 @ 2' - R (H222294-26)

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	06/01/2022	ND	2.10	105	2.00	1.50	
Toluene*	<0.050	0.050	06/01/2022	ND	2.08	104	2.00	1.61	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	2.00	100	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	6.20	103	6.00	1.42	
Total BTEX	<0.300	0.300	06/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	06/02/2022	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	06/01/2022	ND	202	101	200	5.37	
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	182	91.2	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 96.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: SP 6 @ SURFACE (H222294-27)

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	06/02/2022	ND	2.10	105	2.00	1.50		
Toluene*	<0.050	0.050	06/02/2022	ND	2.08	104	2.00	1.61		
Ethylbenzene*	<0.050	0.050	06/02/2022	ND	2.00	100	2.00	1.25		
Total Xylenes*	<0.150	0.150	06/02/2022	ND	6.20	103	6.00	1.42		
Total BTEX	<0.300	0.300	06/02/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	24400	16.0	06/02/2022	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	06/01/2022	ND	202	101	200	5.37		
DRO >C10-C28*	184	10.0	06/01/2022	ND	182	91.2	200	6.79		
EXT DRO >C28-C36	62.4	10.0	06/01/2022	ND						

Surrogate: 1-Chlorooctane 94.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: SP 6 @ 3' (H222294-28)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2022	ND	2.10	105	2.00	1.50	
Toluene*	<0.050	0.050	06/02/2022	ND	2.08	104	2.00	1.61	
Ethylbenzene*	<0.050	0.050	06/02/2022	ND	2.00	100	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/02/2022	ND	6.20	103	6.00	1.42	
Total BTEX	<0.300	0.300	06/02/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	06/02/2022	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	06/01/2022	ND	202	101	200	5.37	
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	182	91.2	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: SP 7 @ SURFACE (H222294-29)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/02/2022	ND	2.10	105	2.00	1.50		
Toluene*	<0.050	0.050	06/02/2022	ND	2.08	104	2.00	1.61		
Ethylbenzene*	<0.050	0.050	06/02/2022	ND	2.00	100	2.00	1.25		
Total Xylenes*	<0.150	0.150	06/02/2022	ND	6.20	103	6.00	1.42		
Total BTEX	<0.300	0.300	06/02/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	38000	16.0	06/02/2022	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	06/01/2022	ND	202	101	200	5.37		
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	182	91.2	200	6.79		
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND						

Surrogate: 1-Chlorooctane 95.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/31/2022	Sampling Date:	05/31/2022
Reported:	06/02/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: SP 7 @ 2' (H222294-30)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2022	ND	2.10	105	2.00	1.50	
Toluene*	<0.050	0.050	06/02/2022	ND	2.08	104	2.00	1.61	
Ethylbenzene*	<0.050	0.050	06/02/2022	ND	2.00	100	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/02/2022	ND	6.20	103	6.00	1.42	
Total BTEX	<0.300	0.300	06/02/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/02/2022	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	06/01/2022	ND	202	101	200	5.37	
DRO >C10-C28*	<10.0	10.0	06/01/2022	ND	182	91.2	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	06/01/2022	ND					

Surrogate: 1-Chlorooctane 91.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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June 20, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON 12/7

Enclosed are the results of analyses for samples received by the laboratory on 06/15/22 14:35.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/15/2022	Sampling Date:	06/15/2022
Reported:	06/20/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072 B2JK FED COM 1H	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SP 1 @ 3' (H222567-01)

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	06/16/2022	ND	2.18	109	2.00	3.80	
Toluene*	<0.050	0.050	06/16/2022	ND	2.15	108	2.00	3.61	
Ethylbenzene*	<0.050	0.050	06/16/2022	ND	2.09	104	2.00	3.25	
Total Xylenes*	<0.150	0.150	06/16/2022	ND	6.44	107	6.00	2.97	
Total BTEX	<0.300	0.300	06/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 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	06/16/2022	ND	384	96.0	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	06/16/2022	ND	184	92.2	200	7.97	
DRO >C10-C28*	<10.0	10.0	06/16/2022	ND	192	95.9	200	8.82	
EXT DRO >C28-C36	<10.0	10.0	06/16/2022	ND					

Surrogate: 1-Chlorooctane 76.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/15/2022	Sampling Date:	06/15/2022
Reported:	06/20/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072 B2JK FED COM 1H	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SP 2 @ 3' (H222567-02)

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	06/16/2022	ND	2.18	109	2.00	3.80		
Toluene*	<0.050	0.050	06/16/2022	ND	2.15	108	2.00	3.61		
Ethylbenzene*	<0.050	0.050	06/16/2022	ND	2.09	104	2.00	3.25		
Total Xylenes*	<0.150	0.150	06/16/2022	ND	6.44	107	6.00	2.97		
Total BTEX	<0.300	0.300	06/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	06/16/2022	ND	384	96.0	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	06/16/2022	ND	184	92.2	200	7.97		
DRO >C10-C28*	<10.0	10.0	06/16/2022	ND	192	95.9	200	8.82		
EXT DRO >C28-C36	<10.0	10.0	06/16/2022	ND						

Surrogate: 1-Chlorooctane 80.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/15/2022	Sampling Date:	06/15/2022
Reported:	06/20/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072 B2JK FED COM 1H	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SP 4 @ 4' (H222567-03)

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	06/16/2022	ND	2.18	109	2.00	3.80	
Toluene*	<0.050	0.050	06/16/2022	ND	2.15	108	2.00	3.61	
Ethylbenzene*	<0.050	0.050	06/16/2022	ND	2.09	104	2.00	3.25	
Total Xylenes*	<0.150	0.150	06/16/2022	ND	6.44	107	6.00	2.97	
Total BTEX	<0.300	0.300	06/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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	06/16/2022	ND	384	96.0	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	06/16/2022	ND	184	92.2	200	7.97	
DRO >C10-C28*	<10.0	10.0	06/16/2022	ND	192	95.9	200	8.82	
EXT DRO >C28-C36	<10.0	10.0	06/16/2022	ND					

Surrogate: 1-Chlorooctane 79.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/15/2022	Sampling Date:	06/15/2022
Reported:	06/20/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7	Sampling Condition:	Cool & Intact
Project Number:	16072 B2JK FED COM 1H	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SP 5 @ 3' (H222567-04)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/16/2022	ND	2.18	109	2.00	3.80		
Toluene*	<0.050	0.050	06/16/2022	ND	2.15	108	2.00	3.61		
Ethylbenzene*	<0.050	0.050	06/16/2022	ND	2.09	104	2.00	3.25		
Total Xylenes*	<0.150	0.150	06/16/2022	ND	6.44	107	6.00	2.97		
Total BTEX	<0.300	0.300	06/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	06/16/2022	ND	384	96.0	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	06/16/2022	ND	184	92.2	200	7.97		
DRO >C10-C28*	<10.0	10.0	06/16/2022	ND	192	95.9	200	8.82		
EXT DRO >C28-C36	<10.0	10.0	06/16/2022	ND						

Surrogate: 1-Chlorooctane 80.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCS/D 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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*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

July 01, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON 12/7 B2JK FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 06/28/22 15:18.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/28/2022	Sampling Date:	06/22/2022
Reported:	07/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: WW 1 (H222767-01)

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	06/29/2022	ND	2.00	100	2.00	6.39		
Toluene*	<0.050	0.050	06/29/2022	ND	2.09	104	2.00	7.09		
Ethylbenzene*	<0.050	0.050	06/29/2022	ND	1.99	99.5	2.00	8.60		
Total Xylenes*	<0.150	0.150	06/29/2022	ND	5.87	97.9	6.00	9.43		
Total BTEX	<0.300	0.300	06/29/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/29/2022	ND	448	112	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	06/30/2022	ND	180	89.9	200	4.55		
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	193	96.6	200	1.04		
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND						

Surrogate: 1-Chlorooctane 70.7 % 43-149

Surrogate: 1-Chlorooctadecane 76.8 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/28/2022	Sampling Date:	06/23/2022
Reported:	07/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: SW 1 (H222767-02)

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	06/29/2022	ND	2.00	100	2.00	6.39		
Toluene*	<0.050	0.050	06/29/2022	ND	2.09	104	2.00	7.09		
Ethylbenzene*	<0.050	0.050	06/29/2022	ND	1.99	99.5	2.00	8.60		
Total Xylenes*	<0.150	0.150	06/29/2022	ND	5.87	97.9	6.00	9.43		
Total BTEX	<0.300	0.300	06/29/2022	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	400	16.0	06/29/2022	ND	448	112	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	06/30/2022	ND	180	89.9	200	4.55		
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	193	96.6	200	1.04		
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND						

Surrogate: 1-Chlorooctane 68.5 % 43-149

Surrogate: 1-Chlorooctadecane 73.8 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/28/2022	Sampling Date:	06/23/2022
Reported:	07/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FL 1 @ 3' (H222767-03)

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	06/29/2022	ND	2.00	100	2.00	6.39	
Toluene*	<0.050	0.050	06/29/2022	ND	2.09	104	2.00	7.09	
Ethylbenzene*	<0.050	0.050	06/29/2022	ND	1.99	99.5	2.00	8.60	
Total Xylenes*	<0.150	0.150	06/29/2022	ND	5.87	97.9	6.00	9.43	
Total BTEX	<0.300	0.300	06/29/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/29/2022	ND	448	112	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	06/30/2022	ND	180	89.9	200	4.55	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	193	96.6	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 66.2 % 43-149

Surrogate: 1-Chlorooctadecane 71.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/28/2022	Sampling Date:	06/23/2022
Reported:	07/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FL 2 @ 3' (H222767-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2022	ND	2.00	100	2.00	6.39	
Toluene*	<0.050	0.050	06/29/2022	ND	2.09	104	2.00	7.09	
Ethylbenzene*	<0.050	0.050	06/29/2022	ND	1.99	99.5	2.00	8.60	
Total Xylenes*	<0.150	0.150	06/29/2022	ND	5.87	97.9	6.00	9.43	
Total BTEX	<0.300	0.300	06/29/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/29/2022	ND	448	112	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	06/30/2022	ND	180	89.9	200	4.55	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	193	96.6	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 66.1 % 43-149

Surrogate: 1-Chlorooctadecane 71.3 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/28/2022	Sampling Date:	06/28/2022
Reported:	07/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: NW 1 (H222767-05)

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	06/30/2022	ND	2.20	110	2.00	6.14	
Toluene*	<0.050	0.050	06/30/2022	ND	2.20	110	2.00	5.91	
Ethylbenzene*	<0.050	0.050	06/30/2022	ND	2.19	110	2.00	6.64	
Total Xylenes*	<0.150	0.150	06/30/2022	ND	6.70	112	6.00	7.08	
Total BTEX	<0.300	0.300	06/30/2022	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	06/29/2022	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	06/30/2022	ND	180	89.9	200	4.55	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	193	96.6	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 71.4 % 43-149

Surrogate: 1-Chlorooctadecane 77.8 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/28/2022	Sampling Date:	06/28/2022
Reported:	07/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: WW 2 (H222767-06)

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	06/30/2022	ND	2.20	110	2.00	6.14	
Toluene*	<0.050	0.050	06/30/2022	ND	2.20	110	2.00	5.91	
Ethylbenzene*	<0.050	0.050	06/30/2022	ND	2.19	110	2.00	6.64	
Total Xylenes*	<0.150	0.150	06/30/2022	ND	6.70	112	6.00	7.08	
Total BTEX	<0.300	0.300	06/30/2022	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	48.0	16.0	06/29/2022	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	06/30/2022	ND	180	89.9	200	4.55	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	193	96.6	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 70.3 % 43-149

Surrogate: 1-Chlorooctadecane 76.1 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/28/2022	Sampling Date:	06/28/2022
Reported:	07/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: WW 3 (H222767-07)

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	06/30/2022	ND	2.20	110	2.00	6.14	
Toluene*	<0.050	0.050	06/30/2022	ND	2.20	110	2.00	5.91	
Ethylbenzene*	<0.050	0.050	06/30/2022	ND	2.19	110	2.00	6.64	
Total Xylenes*	<0.150	0.150	06/30/2022	ND	6.70	112	6.00	7.08	
Total BTEX	<0.300	0.300	06/30/2022	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	80.0	16.0	06/29/2022	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	06/30/2022	ND	180	89.9	200	4.55	
DRO >C10-C28*	57.1	10.0	06/30/2022	ND	193	96.6	200	1.04	
EXT DRO >C28-C36	601	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 68.4 % 43-149

Surrogate: 1-Chlorooctadecane 74.5 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/28/2022	Sampling Date:	06/28/2022
Reported:	07/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FL 3 @ 2' (H222767-08)

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	06/30/2022	ND	2.20	110	2.00	6.14	
Toluene*	<0.050	0.050	06/30/2022	ND	2.20	110	2.00	5.91	
Ethylbenzene*	<0.050	0.050	06/30/2022	ND	2.19	110	2.00	6.64	
Total Xylenes*	<0.150	0.150	06/30/2022	ND	6.70	112	6.00	7.08	
Total BTEX	<0.300	0.300	06/30/2022	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	176	16.0	06/29/2022	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	06/30/2022	ND	180	89.9	200	4.55	
DRO >C10-C28*	24.0	10.0	06/30/2022	ND	193	96.6	200	1.04	
EXT DRO >C28-C36	27.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 76.7 % 43-149

Surrogate: 1-Chlorooctadecane 84.2 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/28/2022	Sampling Date:	06/28/2022
Reported:	07/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FL 4 @ 2' (H222767-09)

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	06/30/2022	ND	2.20	110	2.00	6.14	
Toluene*	<0.050	0.050	06/30/2022	ND	2.20	110	2.00	5.91	
Ethylbenzene*	<0.050	0.050	06/30/2022	ND	2.19	110	2.00	6.64	
Total Xylenes*	<0.150	0.150	06/30/2022	ND	6.70	112	6.00	7.08	
Total BTEX	<0.300	0.300	06/30/2022	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	176	16.0	06/29/2022	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	06/30/2022	ND	180	89.9	200	4.55	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	193	96.6	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 72.9 % 43-149

Surrogate: 1-Chlorooctadecane 78.6 % 42.5-161

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Analytical Results For:

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

Received:	06/28/2022	Sampling Date:	06/28/2022
Reported:	07/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FL 5 @ 2' (H222767-10)

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	06/30/2022	ND	2.20	110	2.00	6.14	
Toluene*	<0.050	0.050	06/30/2022	ND	2.20	110	2.00	5.91	
Ethylbenzene*	<0.050	0.050	06/30/2022	ND	2.19	110	2.00	6.64	
Total Xylenes*	<0.150	0.150	06/30/2022	ND	6.70	112	6.00	7.08	
Total BTEX	<0.300	0.300	06/30/2022	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	06/29/2022	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	06/30/2022	ND	180	89.9	200	4.55	
DRO >C10-C28*	10.9	10.0	06/30/2022	ND	193	96.6	200	1.04	
EXT DRO >C28-C36	471	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 74.4 % 43-149

Surrogate: 1-Chlorooctadecane 81.4 % 42.5-161

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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

July 05, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON 12/7 B2JK FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 06/29/22 15:56.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/29/2022	Sampling Date:	06/28/2022
Reported:	07/05/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: NW 2 (H222798-01)

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	06/30/2022	ND	2.02	101	2.00	6.00	
Toluene*	<0.050	0.050	06/30/2022	ND	2.00	99.9	2.00	7.26	
Ethylbenzene*	<0.050	0.050	06/30/2022	ND	2.01	100	2.00	6.80	
Total Xylenes*	<0.150	0.150	06/30/2022	ND	6.12	102	6.00	7.26	
Total BTEX	<0.300	0.300	06/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	320	16.0	06/30/2022	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	06/30/2022	ND	208	104	200	6.23	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	207	103	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 73.2 % 43-149

Surrogate: 1-Chlorooctadecane 84.7 % 42.5-161

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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: 06/29/2022
 Reported: 07/05/2022
 Project Name: ZIRCON 12/7 B2JK FED COM 1H
 Project Number: 16072
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 06/28/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 6 @ 2' (H222798-02)

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	06/30/2022	ND	2.02	101	2.00	6.00		
Toluene*	<0.050	0.050	06/30/2022	ND	2.00	99.9	2.00	7.26		
Ethylbenzene*	<0.050	0.050	06/30/2022	ND	2.01	100	2.00	6.80		
Total Xylenes*	<0.150	0.150	06/30/2022	ND	6.12	102	6.00	7.26		
Total BTEX	<0.300	0.300	06/30/2022	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	320	16.0	06/30/2022	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	06/30/2022	ND	208	104	200	6.23		
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	207	103	200	3.30		
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND						

Surrogate: 1-Chlorooctane 79.2 % 43-149

Surrogate: 1-Chlorooctadecane 92.4 % 42.5-161

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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:	06/29/2022	Sampling Date:	06/28/2022
Reported:	07/05/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 7 @ 2' (H222798-03)

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	06/30/2022	ND	2.02	101	2.00	6.00	
Toluene*	<0.050	0.050	06/30/2022	ND	2.00	99.9	2.00	7.26	
Ethylbenzene*	<0.050	0.050	06/30/2022	ND	2.01	100	2.00	6.80	
Total Xylenes*	<0.150	0.150	06/30/2022	ND	6.12	102	6.00	7.26	
Total BTEX	<0.300	0.300	06/30/2022	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	80.0	16.0	06/30/2022	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	06/30/2022	ND	208	104	200	6.23	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	207	103	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 76.3 % 43-149

Surrogate: 1-Chlorooctadecane 90.2 % 42.5-161

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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:	06/29/2022	Sampling Date:	06/28/2022
Reported:	07/05/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 8 @ 3' (H222798-04)

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	07/01/2022	ND	2.04	102	2.00	3.90	
Toluene*	<0.050	0.050	07/01/2022	ND	2.11	105	2.00	3.31	
Ethylbenzene*	<0.050	0.050	07/01/2022	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	07/01/2022	ND	5.98	99.7	6.00	3.61	
Total BTEX	<0.300	0.300	07/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	06/30/2022	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	06/30/2022	ND	208	104	200	6.23	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	207	103	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 79.2 % 43-149

Surrogate: 1-Chlorooctadecane 92.6 % 42.5-161

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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:	06/29/2022	Sampling Date:	06/28/2022
Reported:	07/05/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 9 @ 3' (H222798-05)

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	07/01/2022	ND	2.04	102	2.00	3.90	
Toluene*	<0.050	0.050	07/01/2022	ND	2.11	105	2.00	3.31	
Ethylbenzene*	<0.050	0.050	07/01/2022	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	07/01/2022	ND	5.98	99.7	6.00	3.61	
Total BTEX	<0.300	0.300	07/01/2022	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	06/30/2022	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	06/30/2022	ND	208	104	200	6.23	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	207	103	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 76.8 % 43-149

Surrogate: 1-Chlorooctadecane 87.6 % 42.5-161

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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:	06/29/2022	Sampling Date:	06/28/2022
Reported:	07/05/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 10 @ 3' (H222798-06)

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	07/01/2022	ND	2.04	102	2.00	3.90	
Toluene*	<0.050	0.050	07/01/2022	ND	2.11	105	2.00	3.31	
Ethylbenzene*	<0.050	0.050	07/01/2022	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	07/01/2022	ND	5.98	99.7	6.00	3.61	
Total BTEX	<0.300	0.300	07/01/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/30/2022	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	06/30/2022	ND	208	104	200	6.23	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	207	103	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 93.0 % 43-149

Surrogate: 1-Chlorooctadecane 111 % 42.5-161

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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:	06/29/2022	Sampling Date:	06/28/2022
Reported:	07/05/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 11 @ 3' (H222798-07)

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	07/01/2022	ND	2.04	102	2.00	3.90	
Toluene*	<0.050	0.050	07/01/2022	ND	2.11	105	2.00	3.31	
Ethylbenzene*	<0.050	0.050	07/01/2022	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	07/01/2022	ND	5.98	99.7	6.00	3.61	
Total BTEX	<0.300	0.300	07/01/2022	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	48.0	16.0	06/30/2022	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	06/30/2022	ND	208	104	200	6.23	
DRO >C10-C28*	262	10.0	06/30/2022	ND	207	103	200	3.30	
EXT DRO >C28-C36	803	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 82.6 % 43-149

Surrogate: 1-Chlorooctadecane 80.9 % 42.5-161

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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:	06/29/2022	Sampling Date:	06/29/2022
Reported:	07/05/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 12 @ 3' (H222798-08)

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	07/01/2022	ND	2.04	102	2.00	3.90	
Toluene*	<0.050	0.050	07/01/2022	ND	2.11	105	2.00	3.31	
Ethylbenzene*	<0.050	0.050	07/01/2022	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	07/01/2022	ND	5.98	99.7	6.00	3.61	
Total BTEX	<0.300	0.300	07/01/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/30/2022	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	06/30/2022	ND	208	104	200	6.23	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	207	103	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 78.4 % 43-149

Surrogate: 1-Chlorooctadecane 93.9 % 42.5-161

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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:	06/29/2022	Sampling Date:	06/29/2022
Reported:	07/05/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 13 @ 3' (H222798-09)

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	07/01/2022	ND	2.04	102	2.00	3.90	
Toluene*	<0.050	0.050	07/01/2022	ND	2.11	105	2.00	3.31	
Ethylbenzene*	<0.050	0.050	07/01/2022	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	07/01/2022	ND	5.98	99.7	6.00	3.61	
Total BTEX	<0.300	0.300	07/01/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/30/2022	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	06/30/2022	ND	208	104	200	6.23	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	207	103	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 78.6 % 43-149

Surrogate: 1-Chlorooctadecane 94.6 % 42.5-161

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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:	06/29/2022	Sampling Date:	06/29/2022
Reported:	07/05/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 14 @ 3' (H222798-10)

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	07/01/2022	ND	2.04	102	2.00	3.90	
Toluene*	<0.050	0.050	07/01/2022	ND	2.11	105	2.00	3.31	
Ethylbenzene*	<0.050	0.050	07/01/2022	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	07/01/2022	ND	5.98	99.7	6.00	3.61	
Total BTEX	<0.300	0.300	07/01/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/30/2022	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	06/30/2022	ND	208	104	200	6.23	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	207	103	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 73.0 % 43-149

Surrogate: 1-Chlorooctadecane 91.7 % 42.5-161

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

No Rush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.		BILL TO		ANALYSIS REQUEST																					
Project Manager: Lance Crenshaw		P.O. #:		Chloride TPH (8015M) BTEX (8021B)																					
Address: 2617 W Marland		Company: Mewbourne																							
City: Hobbs State: NM Zip: 88240		Attn: Robbia Runnels																							
Phone #: (575) 264-9884 Fax #:		Address: 4801 Business Pk Blvd																							
Project #: 16072 Project Owner: Robbie Runnels		City: Hobbs																							
Project Name: Zircon 12/7 B2JK Fed Com 1H		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/COOL	OTHER :	DATE	TIME											
#22798																									
1	NW2	C	1			✓				✓			6-28-22		✓	✓	✓								
2	FS 6e2	C	1			✓				✓					✓	✓	✓								
3	FS 7e2	C	1			✓				✓					✓	✓	✓								
4	FS 8e3	C	1			✓				✓					✓	✓	✓								
5	FS 9e3	C	1			✓				✓					✓	✓	✓								
6	FS 10e3	C	1			✓				✓					✓	✓	✓								
7	FS 11e3	C	1			✓				✓					✓	✓	✓								
8	FS 12e3	C	1			✓				✓			6-29-22		✓	✓	✓								
9	FS 13e3	C	1			✓				✓					✓	✓	✓								
10	FS 14e3	C	1			✓				✓					✓	✓	✓								
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																									
Relinquished By: Eric Mojica		Date: 6-29-22	Received By: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																		
		Time: 1554			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																		
Relinquished By:		Date:	Received By:		REMARKS:																				
		Time:			Please email results and copy of CoC to pm@etechenv.com.																				
Delivered By: (Circle One)		4.0e2 0.5e2		Sample Condition		CHECKED BY:																			
Sampler - UPS - Bus - Other:		3.5e2 #113		Cool Intact		(Initials)																			
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		[Signature]																			
				<input type="checkbox"/> No <input type="checkbox"/> No																					



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

July 06, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON 12/7 B2JK FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 07/01/22 15:37.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	07/01/2022	Sampling Date:	06/30/2022
Reported:	07/06/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: WW 4 (H222848-01)

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	07/05/2022	ND	2.06	103	2.00	2.91		
Toluene*	<0.050	0.050	07/05/2022	ND	2.08	104	2.00	4.04		
Ethylbenzene*	<0.050	0.050	07/05/2022	ND	2.11	105	2.00	5.11		
Total Xylenes*	<0.150	0.150	07/05/2022	ND	6.46	108	6.00	5.06		
Total BTEX	<0.300	0.300	07/05/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/05/2022	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	07/05/2022	ND	209	104	200	1.45		
DRO >C10-C28*	<10.0	10.0	07/05/2022	ND	201	101	200	4.19		
EXT DRO >C28-C36	<10.0	10.0	07/05/2022	ND						

Surrogate: 1-Chlorooctane 92.7 % 43-149

Surrogate: 1-Chlorooctadecane 109 % 42.5-161

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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: 07/01/2022
 Reported: 07/06/2022
 Project Name: ZIRCON 12/7 B2JK FED COM 1H
 Project Number: 16072
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 06/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 15 @ 3' (H222848-02)

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	07/05/2022	ND	2.06	103	2.00	2.91	
Toluene*	<0.050	0.050	07/05/2022	ND	2.08	104	2.00	4.04	
Ethylbenzene*	<0.050	0.050	07/05/2022	ND	2.11	105	2.00	5.11	
Total Xylenes*	<0.150	0.150	07/05/2022	ND	6.46	108	6.00	5.06	
Total BTEX	<0.300	0.300	07/05/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/05/2022	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	07/05/2022	ND	209	104	200	1.45	
DRO >C10-C28*	<10.0	10.0	07/05/2022	ND	201	101	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	07/05/2022	ND					

Surrogate: 1-Chlorooctane 66.3 % 43-149

Surrogate: 1-Chlorooctadecane 79.6 % 42.5-161

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Analytical Results For:

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

Received:	07/01/2022	Sampling Date:	06/30/2022
Reported:	07/06/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 16 @ 3' (H222848-03)

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	07/05/2022	ND	2.06	103	2.00	2.91	
Toluene*	<0.050	0.050	07/05/2022	ND	2.08	104	2.00	4.04	
Ethylbenzene*	<0.050	0.050	07/05/2022	ND	2.11	105	2.00	5.11	
Total Xylenes*	<0.150	0.150	07/05/2022	ND	6.46	108	6.00	5.06	
Total BTEX	<0.300	0.300	07/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	07/05/2022	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	07/05/2022	ND	209	104	200	1.45	
DRO >C10-C28*	<10.0	10.0	07/05/2022	ND	201	101	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	07/05/2022	ND					

Surrogate: 1-Chlorooctane 64.2 % 43-149

Surrogate: 1-Chlorooctadecane 76.7 % 42.5-161

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/01/2022	Sampling Date:	06/30/2022
Reported:	07/06/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 17 @ 3' (H222848-04)

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	07/05/2022	ND	2.06	103	2.00	2.91	
Toluene*	<0.050	0.050	07/05/2022	ND	2.08	104	2.00	4.04	
Ethylbenzene*	<0.050	0.050	07/05/2022	ND	2.11	105	2.00	5.11	
Total Xylenes*	<0.150	0.150	07/05/2022	ND	6.46	108	6.00	5.06	
Total BTEX	<0.300	0.300	07/05/2022	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	64.0	16.0	07/05/2022	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	07/05/2022	ND	209	104	200	1.45	
DRO >C10-C28*	<10.0	10.0	07/05/2022	ND	201	101	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	07/05/2022	ND					

Surrogate: 1-Chlorooctane 70.4 % 43-149

Surrogate: 1-Chlorooctadecane 84.0 % 42.5-161

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/01/2022	Sampling Date:	07/01/2022
Reported:	07/06/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 18 @ 4' (H222848-05)

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	07/05/2022	ND	2.06	103	2.00	2.91	
Toluene*	<0.050	0.050	07/05/2022	ND	2.08	104	2.00	4.04	
Ethylbenzene*	<0.050	0.050	07/05/2022	ND	2.11	105	2.00	5.11	
Total Xylenes*	<0.150	0.150	07/05/2022	ND	6.46	108	6.00	5.06	
Total BTEX	<0.300	0.300	07/05/2022	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	560	16.0	07/05/2022	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	07/05/2022	ND	209	104	200	1.45	
DRO >C10-C28*	<10.0	10.0	07/05/2022	ND	201	101	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	07/05/2022	ND					

Surrogate: 1-Chlorooctane 58.7 % 43-149

Surrogate: 1-Chlorooctadecane 69.7 % 42.5-161

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Analytical Results For:

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Received:	07/01/2022	Sampling Date:	07/01/2022
Reported:	07/06/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 19 @ 3' (H222848-06)

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	07/05/2022	ND	2.06	103	2.00	2.91	
Toluene*	<0.050	0.050	07/05/2022	ND	2.08	104	2.00	4.04	
Ethylbenzene*	<0.050	0.050	07/05/2022	ND	2.11	105	2.00	5.11	
Total Xylenes*	<0.150	0.150	07/05/2022	ND	6.46	108	6.00	5.06	
Total BTEX	<0.300	0.300	07/05/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/05/2022	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	07/05/2022	ND	186	92.8	200	2.10	
DRO >C10-C28*	<10.0	10.0	07/05/2022	ND	194	97.1	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/05/2022	ND					

Surrogate: 1-Chlorooctane 77.9 % 43-149

Surrogate: 1-Chlorooctadecane 87.1 % 42.5-161

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Analytical Results For:

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 2617 W MARLAND
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Received:	07/01/2022	Sampling Date:	07/01/2022
Reported:	07/06/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 20 @ 3' (H222848-07)

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	07/05/2022	ND	2.06	103	2.00	2.91	
Toluene*	<0.050	0.050	07/05/2022	ND	2.08	104	2.00	4.04	
Ethylbenzene*	<0.050	0.050	07/05/2022	ND	2.11	105	2.00	5.11	
Total Xylenes*	<0.150	0.150	07/05/2022	ND	6.46	108	6.00	5.06	
Total BTEX	<0.300	0.300	07/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	07/05/2022	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	07/05/2022	ND	186	92.8	200	2.10	
DRO >C10-C28*	<10.0	10.0	07/05/2022	ND	194	97.1	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/05/2022	ND					

Surrogate: 1-Chlorooctane 79.9 % 43-149

Surrogate: 1-Chlorooctadecane 89.3 % 42.5-161

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Analytical Results For:

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

Received:	07/01/2022	Sampling Date:	07/01/2022
Reported:	07/06/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 21 @ 3' (H222848-08)

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	07/05/2022	ND	2.06	103	2.00	2.91	
Toluene*	<0.050	0.050	07/05/2022	ND	2.08	104	2.00	4.04	
Ethylbenzene*	<0.050	0.050	07/05/2022	ND	2.11	105	2.00	5.11	
Total Xylenes*	<0.150	0.150	07/05/2022	ND	6.46	108	6.00	5.06	
Total BTEX	<0.300	0.300	07/05/2022	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	16.0	16.0	07/05/2022	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	07/05/2022	ND	186	92.8	200	2.10	
DRO >C10-C28*	<10.0	10.0	07/05/2022	ND	194	97.1	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/05/2022	ND					

Surrogate: 1-Chlorooctane 71.1 % 43-149

Surrogate: 1-Chlorooctadecane 80.1 % 42.5-161

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Analytical Results For:

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

Received:	07/01/2022	Sampling Date:	07/01/2022
Reported:	07/06/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 22 @ 3' (H222848-09)

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	07/05/2022	ND	2.06	103	2.00	2.91	
Toluene*	<0.050	0.050	07/05/2022	ND	2.08	104	2.00	4.04	
Ethylbenzene*	<0.050	0.050	07/05/2022	ND	2.11	105	2.00	5.11	
Total Xylenes*	<0.150	0.150	07/05/2022	ND	6.46	108	6.00	5.06	
Total BTEX	<0.300	0.300	07/05/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/05/2022	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	07/05/2022	ND	186	92.8	200	2.10	
DRO >C10-C28*	<10.0	10.0	07/05/2022	ND	194	97.1	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/05/2022	ND					

Surrogate: 1-Chlorooctane 78.1 % 43-149

Surrogate: 1-Chlorooctadecane 87.5 % 42.5-161

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/01/2022	Sampling Date:	07/01/2022
Reported:	07/06/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 23 @ 3' (H222848-10)

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	07/05/2022	ND	2.06	103	2.00	2.91	
Toluene*	<0.050	0.050	07/05/2022	ND	2.08	104	2.00	4.04	
Ethylbenzene*	<0.050	0.050	07/05/2022	ND	2.11	105	2.00	5.11	
Total Xylenes*	<0.150	0.150	07/05/2022	ND	6.46	108	6.00	5.06	
Total BTEX	<0.300	0.300	07/05/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/05/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2022	ND	186	92.8	200	2.10	
DRO >C10-C28*	<10.0	10.0	07/05/2022	ND	194	97.1	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/05/2022	ND					

Surrogate: 1-Chlorooctane 70.8 % 43-149

Surrogate: 1-Chlorooctadecane 77.8 % 42.5-161

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Analytical Results For:

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Received:	07/01/2022	Sampling Date:	07/01/2022
Reported:	07/06/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 24 @ 3' (H222848-11)

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	07/05/2022	ND	2.06	103	2.00	2.91	
Toluene*	<0.050	0.050	07/05/2022	ND	2.08	104	2.00	4.04	
Ethylbenzene*	<0.050	0.050	07/05/2022	ND	2.11	105	2.00	5.11	
Total Xylenes*	<0.150	0.150	07/05/2022	ND	6.46	108	6.00	5.06	
Total BTEX	<0.300	0.300	07/05/2022	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	64.0	16.0	07/05/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2022	ND	186	92.8	200	2.10	
DRO >C10-C28*	<10.0	10.0	07/05/2022	ND	194	97.1	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/05/2022	ND					

Surrogate: 1-Chlorooctane 73.6 % 43-149

Surrogate: 1-Chlorooctadecane 81.6 % 42.5-161

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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:	07/01/2022	Sampling Date:	07/01/2022
Reported:	07/06/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 25 @ 3' (H222848-12)

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	07/05/2022	ND	2.06	103	2.00	2.91	
Toluene*	<0.050	0.050	07/05/2022	ND	2.08	104	2.00	4.04	
Ethylbenzene*	<0.050	0.050	07/05/2022	ND	2.11	105	2.00	5.11	
Total Xylenes*	<0.150	0.150	07/05/2022	ND	6.46	108	6.00	5.06	
Total BTEX	<0.300	0.300	07/05/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/05/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2022	ND	186	92.8	200	2.10	
DRO >C10-C28*	<10.0	10.0	07/05/2022	ND	194	97.1	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/05/2022	ND					

Surrogate: 1-Chlorooctane 61.6 % 43-149

Surrogate: 1-Chlorooctadecane 70.9 % 42.5-161

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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:	07/01/2022	Sampling Date:	07/01/2022
Reported:	07/06/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 26 @ 3' (H222848-13)

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	07/05/2022	ND	2.06	103	2.00	2.91	
Toluene*	<0.050	0.050	07/05/2022	ND	2.08	104	2.00	4.04	
Ethylbenzene*	<0.050	0.050	07/05/2022	ND	2.11	105	2.00	5.11	
Total Xylenes*	<0.150	0.150	07/05/2022	ND	6.46	108	6.00	5.06	
Total BTEX	<0.300	0.300	07/05/2022	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	400	16.0	07/05/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2022	ND	186	92.8	200	2.10	
DRO >C10-C28*	<10.0	10.0	07/05/2022	ND	194	97.1	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/05/2022	ND					

Surrogate: 1-Chlorooctane 68.3 % 43-149

Surrogate: 1-Chlorooctadecane 77.1 % 42.5-161

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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:	07/01/2022	Sampling Date:	07/01/2022
Reported:	07/06/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 27 @ 3' (H222848-14)

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	07/05/2022	ND	2.06	103	2.00	2.91	
Toluene*	<0.050	0.050	07/05/2022	ND	2.08	104	2.00	4.04	
Ethylbenzene*	<0.050	0.050	07/05/2022	ND	2.11	105	2.00	5.11	
Total Xylenes*	<0.150	0.150	07/05/2022	ND	6.46	108	6.00	5.06	
Total BTEX	<0.300	0.300	07/05/2022	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	400	16.0	07/05/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2022	ND	186	92.8	200	2.10	
DRO >C10-C28*	<10.0	10.0	07/05/2022	ND	194	97.1	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/05/2022	ND					

Surrogate: 1-Chlorooctane 71.6 % 43-149

Surrogate: 1-Chlorooctadecane 80.5 % 42.5-161

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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:	07/01/2022	Sampling Date:	07/01/2022
Reported:	07/06/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 28 @ 3' (H222848-15)

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	07/05/2022	ND	2.06	103	2.00	2.91	
Toluene*	<0.050	0.050	07/05/2022	ND	2.08	104	2.00	4.04	
Ethylbenzene*	<0.050	0.050	07/05/2022	ND	2.11	105	2.00	5.11	
Total Xylenes*	<0.150	0.150	07/05/2022	ND	6.46	108	6.00	5.06	
Total BTEX	<0.300	0.300	07/05/2022	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	432	16.0	07/05/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2022	ND	186	92.8	200	2.10	
DRO >C10-C28*	<10.0	10.0	07/05/2022	ND	194	97.1	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/05/2022	ND					

Surrogate: 1-Chlorooctane 74.8 % 43-149

Surrogate: 1-Chlorooctadecane 83.5 % 42.5-161

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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:	07/01/2022	Sampling Date:	07/01/2022
Reported:	07/06/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: WW 3 A (H222848-16)

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	07/05/2022	ND	186	92.8	200	2.10	
DRO >C10-C28*	<10.0	10.0	07/05/2022	ND	194	97.1	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/05/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	60.4 %	43-149							
Surrogate: 1-Chlorooctadecane	67.8 %	42.5-161							

Sample ID: FS 5 @ 3' (H222848-17)

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	07/05/2022	ND	186	92.8	200	2.10	
DRO >C10-C28*	<10.0	10.0	07/05/2022	ND	194	97.1	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/05/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	61.7 %	43-149							
Surrogate: 1-Chlorooctadecane	69.6 %	42.5-161							

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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:	07/01/2022	Sampling Date:	07/01/2022
Reported:	07/06/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: NW 3 (H222848-18)

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	07/05/2022	ND	2.06	103	2.00	2.91	
Toluene*	<0.050	0.050	07/05/2022	ND	2.08	104	2.00	4.04	
Ethylbenzene*	<0.050	0.050	07/05/2022	ND	2.11	105	2.00	5.11	
Total Xylenes*	<0.150	0.150	07/05/2022	ND	6.46	108	6.00	5.06	
Total BTEX	<0.300	0.300	07/05/2022	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	496	16.0	07/05/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2022	ND	186	92.8	200	2.10	
DRO >C10-C28*	<10.0	10.0	07/05/2022	ND	194	97.1	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/05/2022	ND					

Surrogate: 1-Chlorooctane 73.5 % 43-149

Surrogate: 1-Chlorooctadecane 81.0 % 42.5-161

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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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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. #:		<table border="1"> <tr><td>Chloride</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>TPH (8015M)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>BTEX (8021B)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>										Chloride																					TPH (8015M)																						BTEX (8021B)																					
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Address: 2617 W Marland		Company: Mewbourne																																																																												
City: Hobbs State: NM Zip: 88240		Attn: Robbie Runnels																																																																												
Phone #: (575) 264-9884 Fax #:		Address: 4801 Business Park Blvd																																																																												
Project #: 16072 Project Owner: Robbie Runnels		City: Hobbs																																																																												
Project Name: Zircon 12/7 B2JK Fed Com IH		State: NM Zip: 88240																																																																												
Project Location: Mewbourne Oil Company		Phone #:																																																																												
Sampler Name: Eric Mojica		Fax #:																																																																												
FOR LAB USE ONLY																																																																														
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4	FS 17e3'	C								6-30-22																																																																				
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6	FS 19e3'	C																																																																												
7	FS 20e3'	C																																																																												
8	FS 21e3'	C																																																																												
9	FS 22e3'	C																																																																												
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<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																																																																														
Relinquished By: Eric Mojica		Date: 7-1-22	Received By: Rodri guez		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																																																																							
		Time: 1537			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																																																																							
Relinquished By:		Date:	Received By:		REMARKS:																																																																									
		Time:			Please email results and copy of CoC to pm@etechenv.com.																																																																									
Delivered By: (Circle One)		Sample Condition		CHECKED BY:																																																																										
Sampler - UPS - Bus - Other: u-1e } C-0.5e 5.0e #113		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No		(Initials) SR																																																																										



ARDINAL LABORATORIES

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

Routine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 21 of 21

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: Robbie Runnels																										
Phone #: (575) 264-9884		Fax #:		Address: 4801 Business Pk Blvd																												
Project #: 16072		Project Owner: Robbie Runnels		City: Hobbs																												
Project Name: Zircon 12/7 B2JK Fed Con IH				State: NM																Zip: 88240												
Project Location: Mewbourne Oil Company				Phone #:																												
Sampler Name: Eric Mojica				Fax #:																												
FOR LAB USE ONLY																																
Lab I.D.		Sample I.D.		# CONTAINERS	MATRIX			PRESERV.			SAMPLING																					
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER:	DATE		TIME																
H222848																																
11		FS24e3		C 1			✓				✓			7-1-22				✓	✓	✓												
12		FS25e3		C 1			✓				✓			7-1-22				✓	✓	✓												
13		FS26e3		C 1			✓				✓			7-1-22				✓	✓	✓												
14		FS27e3		C 1			✓				✓			7-1-22				✓	✓	✓												
15		FS28e3		C 1			✓				✓			7-1-22				✓	✓	✓												
16		WW3A		C 1			✓				✓			7-1-22				X	✓	X	Removed per Customer 7/5/22											
17		FS5e3		C 1			✓				✓			7-1-22				X	✓	X												
18		NW3		C 1			✓				✓			7-1-22				✓	✓	✓												
		sk 7-1-22																														
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Relinquished By: Eric Mojica				Date: 7-1-22		Received By: S. Rodriguez				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																				
				Time: 1537						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																				
Relinquished By:				Date:		Received By:				REMARKS:																						
				Time:						Please email results and copy of CoC to pm@etechenv.com.																						
Delivered By: (Circle One) UPS - Bus - Other: 4.1°C - 0.5°C				Sample Condition: Cool Intact				CHECKED BY: (Initials) ER																								
Sampler - UPS - Bus - Other: 5.6°C #113				<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No																								



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

July 08, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON 12/7 B2JK FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 07/06/22 15:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	07/06/2022	Sampling Date:	07/05/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 11 @ 4' (H222896-01)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2022	ND	210	105	200	2.88	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	217	108	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					
<i>Surrogate: 1-Chlorooctane</i>		<i>90.7 %</i>	<i>43-149</i>						
<i>Surrogate: 1-Chlorooctadecane</i>		<i>91.5 %</i>	<i>42.5-161</i>						

Sample ID: WW 5 (H222896-02)

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	07/08/2022	ND	2.09	105	2.00	0.107	
Toluene*	<0.050	0.050	07/08/2022	ND	2.09	105	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.09	104	2.00	0.229	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.30	105	6.00	1.26	
Total BTEX	<0.300	0.300	07/08/2022	ND					
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>		<i>84.3 %</i>	<i>69.9-140</i>						

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	07/07/2022	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

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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: 07/06/2022
 Reported: 07/08/2022
 Project Name: ZIRCON 12/7 B2JK FED COM 1H
 Project Number: 16072
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/05/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 5 (H222896-02)

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2022	ND	210	105	200	2.88	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	217	108	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					
Surrogate: 1-Chlorooctane	86.6 %	43-149							
Surrogate: 1-Chlorooctadecane	87.0 %	42.5-161							

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Analytical Results For:

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

Received:	07/06/2022	Sampling Date:	07/05/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 29 @ 3' (H222896-03)

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	07/08/2022	ND	2.09	105	2.00	0.107	
Toluene*	<0.050	0.050	07/08/2022	ND	2.09	105	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.09	104	2.00	0.229	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.30	105	6.00	1.26	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.0 % 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	07/07/2022	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	07/07/2022	ND	210	105	200	2.88	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	217	108	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane 89.4 % 43-149

Surrogate: 1-Chlorooctadecane 89.7 % 42.5-161

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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:	07/06/2022	Sampling Date:	07/05/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 30 @ 4.5' (H222896-04)

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	07/08/2022	ND	2.09	105	2.00	0.107	
Toluene*	<0.050	0.050	07/08/2022	ND	2.09	105	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.09	104	2.00	0.229	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.30	105	6.00	1.26	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 85.7 % 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	816	16.0	07/07/2022	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	07/07/2022	ND	210	105	200	2.88	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	217	108	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane 90.7 % 43-149

Surrogate: 1-Chlorooctadecane 89.6 % 42.5-161

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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:	07/06/2022	Sampling Date:	07/05/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 31 @ 4.5' (H222896-05)

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	07/08/2022	ND	2.09	105	2.00	0.107	
Toluene*	<0.050	0.050	07/08/2022	ND	2.09	105	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.09	104	2.00	0.229	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.30	105	6.00	1.26	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/07/2022	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	07/07/2022	ND	210	105	200	2.88	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	217	108	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane 96.6 % 43-149

Surrogate: 1-Chlorooctadecane 96.3 % 42.5-161

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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:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 32 @ 3' (H222896-06)

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	07/08/2022	ND	2.09	105	2.00	0.107	
Toluene*	<0.050	0.050	07/08/2022	ND	2.09	105	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.09	104	2.00	0.229	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.30	105	6.00	1.26	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.9 % 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	07/07/2022	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	07/07/2022	ND	210	105	200	2.88	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	217	108	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane 89.4 % 43-149

Surrogate: 1-Chlorooctadecane 88.5 % 42.5-161

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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:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 33 @ 3' (H222896-07)

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	07/08/2022	ND	2.09	105	2.00	0.107	
Toluene*	<0.050	0.050	07/08/2022	ND	2.09	105	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.09	104	2.00	0.229	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.30	105	6.00	1.26	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.2 % 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	368	16.0	07/07/2022	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	07/07/2022	ND	210	105	200	2.88	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	217	108	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane 88.8 % 43-149

Surrogate: 1-Chlorooctadecane 87.7 % 42.5-161

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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:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 34 @ 3' (H222896-08)

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	07/08/2022	ND	2.09	105	2.00	0.107	
Toluene*	<0.050	0.050	07/08/2022	ND	2.09	105	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.09	104	2.00	0.229	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.30	105	6.00	1.26	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.1 % 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	144	16.0	07/07/2022	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	07/07/2022	ND	210	105	200	2.88	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	217	108	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane 84.7 % 43-149

Surrogate: 1-Chlorooctadecane 83.1 % 42.5-161

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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:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 35 @ 3' (H222896-09)

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	07/08/2022	ND	2.09	105	2.00	0.107	
Toluene*	<0.050	0.050	07/08/2022	ND	2.09	105	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.09	104	2.00	0.229	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.30	105	6.00	1.26	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 85.8 % 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	07/07/2022	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	07/07/2022	ND	210	105	200	2.88	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	217	108	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane 77.9 % 43-149

Surrogate: 1-Chlorooctadecane 76.0 % 42.5-161

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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:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 36 @ 4' (H222896-10)

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	07/08/2022	ND	2.09	105	2.00	0.107	
Toluene*	<0.050	0.050	07/08/2022	ND	2.09	105	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.09	104	2.00	0.229	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.30	105	6.00	1.26	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 85.0 % 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	07/07/2022	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	07/07/2022	ND	210	105	200	2.88	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	217	108	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane 89.7 % 43-149

Surrogate: 1-Chlorooctadecane 88.4 % 42.5-161

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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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

July 11, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON 12/7 B2JK FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 07/07/22 15:17.

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, flowing "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FL 37 @ 6' (H222923-01)

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	07/08/2022	ND	1.97	98.7	2.00	4.84	
Toluene*	<0.050	0.050	07/08/2022	ND	2.02	101	2.00	5.21	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.06	103	2.00	4.91	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.26	104	6.00	5.09	
Total BTEX	<0.300	0.300	07/08/2022	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	48.0	16.0	07/08/2022	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	07/08/2022	ND	216	108	200	1.16	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	212	106	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 73.4 % 43-149

Surrogate: 1-Chlorooctadecane 84.3 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FL 38 @ 5' (H222923-02)

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	07/08/2022	ND	1.97	98.7	2.00	4.84	
Toluene*	<0.050	0.050	07/08/2022	ND	2.02	101	2.00	5.21	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.06	103	2.00	4.91	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.26	104	6.00	5.09	
Total BTEX	<0.300	0.300	07/08/2022	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	192	16.0	07/08/2022	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	07/08/2022	ND	216	108	200	1.16	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	212	106	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 74.5 % 43-149

Surrogate: 1-Chlorooctadecane 89.5 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FL 39 @ 3' (H222923-03)

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	07/09/2022	ND	2.12	106	2.00	0.843	
Toluene*	<0.050	0.050	07/09/2022	ND	2.16	108	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/09/2022	ND	2.19	110	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/09/2022	ND	6.73	112	6.00	0.772	
Total BTEX	<0.300	0.300	07/09/2022	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	160	16.0	07/08/2022	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	07/11/2022	ND	216	108	200	1.16	
DRO >C10-C28*	<10.0	10.0	07/11/2022	ND	212	106	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	07/11/2022	ND					

Surrogate: 1-Chlorooctane 86.4 % 43-149

Surrogate: 1-Chlorooctadecane 106 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FL 40 @ 3' (H222923-04)

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	07/09/2022	ND	2.12	106	2.00	0.843	
Toluene*	<0.050	0.050	07/09/2022	ND	2.16	108	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/09/2022	ND	2.19	110	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/09/2022	ND	6.73	112	6.00	0.772	
Total BTEX	<0.300	0.300	07/09/2022	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	192	16.0	07/08/2022	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	07/08/2022	ND	182	90.8	200	5.81	QM-07
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	184	92.0	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 68.3 % 43-149

Surrogate: 1-Chlorooctadecane 79.0 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FL 41 @ 3' (H222923-05)

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	07/09/2022	ND	2.12	106	2.00	0.843	
Toluene*	<0.050	0.050	07/09/2022	ND	2.16	108	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/09/2022	ND	2.19	110	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/09/2022	ND	6.73	112	6.00	0.772	
Total BTEX	<0.300	0.300	07/09/2022	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	64.0	16.0	07/08/2022	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	07/08/2022	ND	182	90.8	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	184	92.0	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 80.2 % 43-149

Surrogate: 1-Chlorooctadecane 92.2 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FL 42 @ 3' (H222923-06)

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	07/09/2022	ND	2.12	106	2.00	0.843	
Toluene*	<0.050	0.050	07/09/2022	ND	2.16	108	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/09/2022	ND	2.19	110	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/09/2022	ND	6.73	112	6.00	0.772	
Total BTEX	<0.300	0.300	07/09/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/08/2022	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	07/08/2022	ND	182	90.8	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	184	92.0	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 79.9 % 43-149

Surrogate: 1-Chlorooctadecane 92.2 % 42.5-161

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Analytical Results For:

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

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FL 43 @ 3' (H222923-07)

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	07/09/2022	ND	2.12	106	2.00	0.843	
Toluene*	<0.050	0.050	07/09/2022	ND	2.16	108	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/09/2022	ND	2.19	110	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/09/2022	ND	6.73	112	6.00	0.772	
Total BTEX	<0.300	0.300	07/09/2022	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	96.0	16.0	07/08/2022	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	07/08/2022	ND	182	90.8	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	184	92.0	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 83.3 % 43-149

Surrogate: 1-Chlorooctadecane 95.4 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FL 44 @ 2.5' (H222923-08)

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	07/09/2022	ND	2.12	106	2.00	0.843	
Toluene*	<0.050	0.050	07/09/2022	ND	2.16	108	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/09/2022	ND	2.19	110	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/09/2022	ND	6.73	112	6.00	0.772	
Total BTEX	<0.300	0.300	07/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	07/08/2022	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	07/08/2022	ND	182	90.8	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	184	92.0	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 86.1 % 43-149

Surrogate: 1-Chlorooctadecane 98.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FL 45 @ 3.5' (H222923-09)

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	07/09/2022	ND	2.12	106	2.00	0.843	
Toluene*	<0.050	0.050	07/09/2022	ND	2.16	108	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/09/2022	ND	2.19	110	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/09/2022	ND	6.73	112	6.00	0.772	
Total BTEX	<0.300	0.300	07/09/2022	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	128	16.0	07/08/2022	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	07/08/2022	ND	182	90.8	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	184	92.0	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 84.3 % 43-149

Surrogate: 1-Chlorooctadecane 96.7 % 42.5-161

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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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July 12, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON 12/7 B2JK FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 07/08/22 15:25.

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:	07/08/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 30 @ 5 1/2' (H222947-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/12/2022	ND	432	108	400	7.69	

Sample ID: FS 46 @ 5' (H222947-02)

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	07/11/2022	ND	2.02	101	2.00	4.90	
Toluene*	<0.050	0.050	07/11/2022	ND	2.31	116	2.00	7.36	
Ethylbenzene*	<0.050	0.050	07/11/2022	ND	2.23	111	2.00	6.88	
Total Xylenes*	<0.150	0.150	07/11/2022	ND	7.11	118	6.00	8.00	
Total BTEX	<0.300	0.300	07/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/12/2022	ND	432	108	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	07/12/2022	ND	184	91.9	200	3.64	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	181	90.6	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 90.1 % 43-149

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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: 07/08/2022
 Reported: 07/12/2022
 Project Name: ZIRCON 12/7 B2JK FED COM 1H
 Project Number: 16072
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/08/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 46 @ 5' (H222947-02)

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Surrogate: 1-Chlorooctadecane	101 %	42.5-161								

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Analytical Results For:

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

Received:	07/08/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 47 @ 3' (H222947-03)

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	07/11/2022	ND	2.02	101	2.00	4.90	
Toluene*	<0.050	0.050	07/11/2022	ND	2.31	116	2.00	7.36	
Ethylbenzene*	<0.050	0.050	07/11/2022	ND	2.23	111	2.00	6.88	
Total Xylenes*	<0.150	0.150	07/11/2022	ND	7.11	118	6.00	8.00	
Total BTEX	<0.300	0.300	07/11/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/12/2022	ND	432	108	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	07/12/2022	ND	184	91.9	200	3.64	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	181	90.6	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 89.1 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

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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: 07/08/2022
 Reported: 07/12/2022
 Project Name: ZIRCON 12/7 B2JK FED COM 1H
 Project Number: 16072
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 07/08/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 48 @ 2' (H222947-04)

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	07/11/2022	ND	2.02	101	2.00	4.90	
Toluene*	<0.050	0.050	07/11/2022	ND	2.31	116	2.00	7.36	
Ethylbenzene*	<0.050	0.050	07/11/2022	ND	2.23	111	2.00	6.88	
Total Xylenes*	<0.150	0.150	07/11/2022	ND	7.11	118	6.00	8.00	
Total BTEX	<0.300	0.300	07/11/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/12/2022	ND	432	108	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	07/12/2022	ND	184	91.9	200	3.64	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	181	90.6	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 62.6 % 43-149

Surrogate: 1-Chlorooctadecane 70.8 % 42.5-161

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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:	07/08/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 49 @ 2' (H222947-05)

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	07/11/2022	ND	2.02	101	2.00	4.90	
Toluene*	<0.050	0.050	07/11/2022	ND	2.31	116	2.00	7.36	
Ethylbenzene*	<0.050	0.050	07/11/2022	ND	2.23	111	2.00	6.88	
Total Xylenes*	<0.150	0.150	07/11/2022	ND	7.11	118	6.00	8.00	
Total BTEX	<0.300	0.300	07/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/12/2022	ND	432	108	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	07/12/2022	ND	184	91.9	200	3.64	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	181	90.6	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 91.5 % 43-149

Surrogate: 1-Chlorooctadecane 106 % 42.5-161

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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:	07/08/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 50 @ 2' (H222947-06)

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	07/11/2022	ND	2.02	101	2.00	4.90	
Toluene*	<0.050	0.050	07/11/2022	ND	2.31	116	2.00	7.36	
Ethylbenzene*	<0.050	0.050	07/11/2022	ND	2.23	111	2.00	6.88	
Total Xylenes*	<0.150	0.150	07/11/2022	ND	7.11	118	6.00	8.00	
Total BTEX	<0.300	0.300	07/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/12/2022	ND	432	108	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	07/12/2022	ND	184	91.9	200	3.64	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	181	90.6	200	8.53	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 88.4 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

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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:	07/08/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 51 @ 2' (H222947-07)

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	07/11/2022	ND	2.02	101	2.00	4.90	
Toluene*	<0.050	0.050	07/11/2022	ND	2.31	116	2.00	7.36	
Ethylbenzene*	<0.050	0.050	07/11/2022	ND	2.23	111	2.00	6.88	
Total Xylenes*	<0.150	0.150	07/11/2022	ND	7.11	118	6.00	8.00	
Total BTEX	<0.300	0.300	07/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/12/2022	ND	432	108	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	07/11/2022	ND	209	105	200	0.259	
DRO >C10-C28*	<10.0	10.0	07/11/2022	ND	215	107	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	07/11/2022	ND					

Surrogate: 1-Chlorooctane 89.8 % 43-149

Surrogate: 1-Chlorooctadecane 94.4 % 42.5-161

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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:	07/08/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 52 @ 2' (H222947-08)

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	07/11/2022	ND	2.02	101	2.00	4.90	
Toluene*	<0.050	0.050	07/11/2022	ND	2.31	116	2.00	7.36	
Ethylbenzene*	<0.050	0.050	07/11/2022	ND	2.23	111	2.00	6.88	
Total Xylenes*	<0.150	0.150	07/11/2022	ND	7.11	118	6.00	8.00	
Total BTEX	<0.300	0.300	07/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/12/2022	ND	432	108	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	07/11/2022	ND	209	105	200	0.259	
DRO >C10-C28*	<10.0	10.0	07/11/2022	ND	215	107	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	07/11/2022	ND					

Surrogate: 1-Chlorooctane 92.4 % 43-149

Surrogate: 1-Chlorooctadecane 96.0 % 42.5-161

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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:	07/08/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: EW 3 (H222947-09)

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	07/11/2022	ND	2.02	101	2.00	4.90	
Toluene*	<0.050	0.050	07/11/2022	ND	2.31	116	2.00	7.36	
Ethylbenzene*	<0.050	0.050	07/11/2022	ND	2.23	111	2.00	6.88	
Total Xylenes*	<0.150	0.150	07/11/2022	ND	7.11	118	6.00	8.00	
Total BTEX	<0.300	0.300	07/11/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/12/2022	ND	432	108	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	07/11/2022	ND	209	105	200	0.259	
DRO >C10-C28*	<10.0	10.0	07/11/2022	ND	215	107	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	07/11/2022	ND					

Surrogate: 1-Chlorooctane 84.3 % 43-149

Surrogate: 1-Chlorooctadecane 87.8 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Celey D. Keene, Lab Director/Quality Manager



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

July 15, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON 12/7 B2JK FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 07/12/22 16:10.

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: EW 1 (H222995-01)

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	07/14/2022	ND	2.01	101	2.00	3.53	
Toluene*	<0.050	0.050	07/14/2022	ND	2.10	105	2.00	3.49	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.13	107	2.00	3.57	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.59	110	6.00	4.04	
Total BTEX	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	07/14/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2022	ND	179	89.3	200	5.04	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	194	96.8	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane 66.9 % 43-149

Surrogate: 1-Chlorooctadecane 72.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: EW 2 (H222995-02)

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	07/14/2022	ND	2.01	101	2.00	3.53	
Toluene*	<0.050	0.050	07/14/2022	ND	2.10	105	2.00	3.49	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.13	107	2.00	3.57	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.59	110	6.00	4.04	
Total BTEX	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/14/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2022	ND	179	89.3	200	5.04	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	194	96.8	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane 66.8 % 43-149

Surrogate: 1-Chlorooctadecane 72.2 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 53 @ 4.5' (H222995-03)

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	07/14/2022	ND	2.01	101	2.00	3.53	
Toluene*	<0.050	0.050	07/14/2022	ND	2.10	105	2.00	3.49	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.13	107	2.00	3.57	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.59	110	6.00	4.04	
Total BTEX	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	07/14/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2022	ND	179	89.3	200	5.04	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	194	96.8	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane 69.4 % 43-149

Surrogate: 1-Chlorooctadecane 77.1 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: FS 54 @ 2.5' (H222995-04)

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	07/14/2022	ND	2.01	101	2.00	3.53	
Toluene*	<0.050	0.050	07/14/2022	ND	2.10	105	2.00	3.49	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.13	107	2.00	3.57	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.59	110	6.00	4.04	
Total BTEX	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/14/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2022	ND	179	89.3	200	5.04	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	194	96.8	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane 69.6 % 43-149

Surrogate: 1-Chlorooctadecane 75.5 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/12/2022	Sampling Date:	07/12/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: NW 4 (H222995-05)

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	07/13/2022	ND	1.91	95.3	2.00	10.2	
Toluene*	<0.050	0.050	07/13/2022	ND	1.97	98.3	2.00	10.1	
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	2.01	100	2.00	11.8	
Total Xylenes*	<0.150	0.150	07/13/2022	ND	6.08	101	6.00	11.0	
Total BTEX	<0.300	0.300	07/13/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/14/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2022	ND	179	89.3	200	5.04	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	194	96.8	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane 58.9 % 43-149

Surrogate: 1-Chlorooctadecane 63.9 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/12/2022	Sampling Date:	07/12/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: NW 5 (H222995-06)

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	07/13/2022	ND	1.91	95.3	2.00	10.2	
Toluene*	<0.050	0.050	07/13/2022	ND	1.97	98.3	2.00	10.1	
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	2.01	100	2.00	11.8	
Total Xylenes*	<0.150	0.150	07/13/2022	ND	6.08	101	6.00	11.0	
Total BTEX	<0.300	0.300	07/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/14/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2022	ND	179	89.3	200	5.04	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	194	96.8	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane 67.0 % 43-149

Surrogate: 1-Chlorooctadecane 73.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/12/2022	Sampling Date:	07/12/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: EW 4 (H222995-07)

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	07/13/2022	ND	1.91	95.3	2.00	10.2	
Toluene*	<0.050	0.050	07/13/2022	ND	1.97	98.3	2.00	10.1	
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	2.01	100	2.00	11.8	
Total Xylenes*	<0.150	0.150	07/13/2022	ND	6.08	101	6.00	11.0	
Total BTEX	<0.300	0.300	07/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/14/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2022	ND	179	89.3	200	5.04	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	194	96.8	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane 76.1 % 43-149

Surrogate: 1-Chlorooctadecane 83.9 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/12/2022	Sampling Date:	07/12/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - LEA CO NM		

Sample ID: EW 5 (H222995-08)

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	07/13/2022	ND	1.91	95.3	2.00	10.2	
Toluene*	<0.050	0.050	07/13/2022	ND	1.97	98.3	2.00	10.1	
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	2.01	100	2.00	11.8	
Total Xylenes*	<0.150	0.150	07/13/2022	ND	6.08	101	6.00	11.0	
Total BTEX	<0.300	0.300	07/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/14/2022	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	07/13/2022	ND	179	89.3	200	5.04	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	194	96.8	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane 75.5 % 43-149

Surrogate: 1-Chlorooctadecane 83.6 % 42.5-161

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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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

July 20, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON 12/7 B2JK FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 07/15/22 15:48.

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.

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:	07/15/2022	Sampling Date:	07/13/2022
Reported:	07/20/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 55 @ 1.5' (H223101-01)

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	07/19/2022	ND	2.06	103	2.00	10.7	
Toluene*	<0.050	0.050	07/19/2022	ND	2.14	107	2.00	10.9	
Ethylbenzene*	<0.050	0.050	07/19/2022	ND	2.17	108	2.00	10.8	
Total Xylenes*	<0.150	0.150	07/19/2022	ND	6.68	111	6.00	11.0	
Total BTEX	<0.300	0.300	07/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2022	ND	215	107	200	3.87	
DRO >C10-C28*	<10.0	10.0	07/18/2022	ND	221	110	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 84.8 % 43-149

Surrogate: 1-Chlorooctadecane 77.9 % 42.5-161

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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:	07/15/2022	Sampling Date:	07/13/2022
Reported:	07/20/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 56 @ 2' (H223101-02)

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	07/19/2022	ND	2.06	103	2.00	10.7	
Toluene*	<0.050	0.050	07/19/2022	ND	2.14	107	2.00	10.9	
Ethylbenzene*	<0.050	0.050	07/19/2022	ND	2.17	108	2.00	10.8	
Total Xylenes*	<0.150	0.150	07/19/2022	ND	6.68	111	6.00	11.0	
Total BTEX	<0.300	0.300	07/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2022	ND	215	107	200	3.87	
DRO >C10-C28*	<10.0	10.0	07/18/2022	ND	221	110	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 83.0 % 43-149

Surrogate: 1-Chlorooctadecane 75.7 % 42.5-161

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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:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/20/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 57 @ 3' (H223101-03)

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	07/19/2022	ND	2.06	103	2.00	10.7	
Toluene*	<0.050	0.050	07/19/2022	ND	2.14	107	2.00	10.9	
Ethylbenzene*	<0.050	0.050	07/19/2022	ND	2.17	108	2.00	10.8	
Total Xylenes*	<0.150	0.150	07/19/2022	ND	6.68	111	6.00	11.0	
Total BTEX	<0.300	0.300	07/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2022	ND	215	107	200	3.87	
DRO >C10-C28*	<10.0	10.0	07/18/2022	ND	221	110	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 82.5 % 43-149

Surrogate: 1-Chlorooctadecane 76.9 % 42.5-161

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Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/20/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 58 @ 3' (H223101-04)

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	07/19/2022	ND	2.06	103	2.00	10.7	
Toluene*	<0.050	0.050	07/19/2022	ND	2.14	107	2.00	10.9	
Ethylbenzene*	<0.050	0.050	07/19/2022	ND	2.17	108	2.00	10.8	
Total Xylenes*	<0.150	0.150	07/19/2022	ND	6.68	111	6.00	11.0	
Total BTEX	<0.300	0.300	07/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2022	ND	215	107	200	3.87	
DRO >C10-C28*	<10.0	10.0	07/18/2022	ND	221	110	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 78.1 % 43-149

Surrogate: 1-Chlorooctadecane 71.0 % 42.5-161

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Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/13/2022
Reported:	07/20/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 59 @ 1.5' (H223101-05)

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	07/19/2022	ND	2.06	103	2.00	10.7	
Toluene*	<0.050	0.050	07/19/2022	ND	2.14	107	2.00	10.9	
Ethylbenzene*	<0.050	0.050	07/19/2022	ND	2.17	108	2.00	10.8	
Total Xylenes*	<0.150	0.150	07/19/2022	ND	6.68	111	6.00	11.0	
Total BTEX	<0.300	0.300	07/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2022	ND	215	107	200	3.87	
DRO >C10-C28*	<10.0	10.0	07/18/2022	ND	221	110	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 80.9 % 43-149

Surrogate: 1-Chlorooctadecane 73.7 % 42.5-161

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Analytical Results For:

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 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/15/2022	Sampling Date:	07/15/2022
Reported:	07/20/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 60 @ 3.5' (H223101-06)

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	07/19/2022	ND	2.06	103	2.00	10.7	
Toluene*	<0.050	0.050	07/19/2022	ND	2.14	107	2.00	10.9	
Ethylbenzene*	<0.050	0.050	07/19/2022	ND	2.17	108	2.00	10.8	
Total Xylenes*	<0.150	0.150	07/19/2022	ND	6.68	111	6.00	11.0	
Total BTEX	<0.300	0.300	07/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2022	ND	215	107	200	3.87	
DRO >C10-C28*	<10.0	10.0	07/18/2022	ND	221	110	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 76.7 % 43-149

Surrogate: 1-Chlorooctadecane 70.9 % 42.5-161

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Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/20/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 61 @ 3.5' (H223101-07)

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	07/19/2022	ND	2.06	103	2.00	10.7	
Toluene*	<0.050	0.050	07/19/2022	ND	2.14	107	2.00	10.9	
Ethylbenzene*	<0.050	0.050	07/19/2022	ND	2.17	108	2.00	10.8	
Total Xylenes*	<0.150	0.150	07/19/2022	ND	6.68	111	6.00	11.0	
Total BTEX	<0.300	0.300	07/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2022	ND	215	107	200	3.87	
DRO >C10-C28*	<10.0	10.0	07/18/2022	ND	221	110	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 81.8 % 43-149

Surrogate: 1-Chlorooctadecane 74.3 % 42.5-161

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Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/15/2022
Reported:	07/20/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 62 @ 3.5' (H223101-08)

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	07/19/2022	ND	2.06	103	2.00	10.7	
Toluene*	<0.050	0.050	07/19/2022	ND	2.14	107	2.00	10.9	
Ethylbenzene*	<0.050	0.050	07/19/2022	ND	2.17	108	2.00	10.8	
Total Xylenes*	<0.150	0.150	07/19/2022	ND	6.68	111	6.00	11.0	
Total BTEX	<0.300	0.300	07/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2022	ND	215	107	200	3.87	
DRO >C10-C28*	<10.0	10.0	07/18/2022	ND	221	110	200	2.22	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 75.5 % 43-149

Surrogate: 1-Chlorooctadecane 69.0 % 42.5-161

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Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/15/2022
Reported:	07/20/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 63 @ 1' (H223101-09)

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	07/19/2022	ND	2.06	103	2.00	10.7	
Toluene*	<0.050	0.050	07/19/2022	ND	2.14	107	2.00	10.9	
Ethylbenzene*	<0.050	0.050	07/19/2022	ND	2.17	108	2.00	10.8	
Total Xylenes*	<0.150	0.150	07/19/2022	ND	6.68	111	6.00	11.0	
Total BTEX	<0.300	0.300	07/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2022	ND	194	96.9	200	1.02	
DRO >C10-C28*	<10.0	10.0	07/18/2022	ND	204	102	200	0.523	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 68.4 % 43-149

Surrogate: 1-Chlorooctadecane 78.0 % 42.5-161

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Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/15/2022
Reported:	07/20/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 64 @ 2' (H223101-10)

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	07/18/2022	ND	2.06	103	2.00	8.65	
Toluene*	<0.050	0.050	07/18/2022	ND	2.10	105	2.00	9.00	
Ethylbenzene*	<0.050	0.050	07/18/2022	ND	2.13	107	2.00	9.40	
Total Xylenes*	<0.150	0.150	07/18/2022	ND	6.57	109	6.00	9.79	
Total BTEX	<0.300	0.300	07/18/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2022	ND	194	96.9	200	1.02	
DRO >C10-C28*	<10.0	10.0	07/18/2022	ND	204	102	200	0.523	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 69.4 % 43-149

Surrogate: 1-Chlorooctadecane 79.4 % 42.5-161

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Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/15/2022
Reported:	07/20/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 67 @ 2' (H223101-11)

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	07/18/2022	ND	2.06	103	2.00	8.65	
Toluene*	<0.050	0.050	07/18/2022	ND	2.10	105	2.00	9.00	
Ethylbenzene*	<0.050	0.050	07/18/2022	ND	2.13	107	2.00	9.40	
Total Xylenes*	<0.150	0.150	07/18/2022	ND	6.57	109	6.00	9.79	
Total BTEX	<0.300	0.300	07/18/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2022	ND	194	96.9	200	1.02	
DRO >C10-C28*	<10.0	10.0	07/18/2022	ND	204	102	200	0.523	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 72.8 % 43-149

Surrogate: 1-Chlorooctadecane 81.9 % 42.5-161

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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:	07/15/2022	Sampling Date:	07/13/2022
Reported:	07/20/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: WW 6B (H223101-12)

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	07/18/2022	ND	2.06	103	2.00	8.65	
Toluene*	<0.050	0.050	07/18/2022	ND	2.10	105	2.00	9.00	
Ethylbenzene*	<0.050	0.050	07/18/2022	ND	2.13	107	2.00	9.40	
Total Xylenes*	<0.150	0.150	07/18/2022	ND	6.57	109	6.00	9.79	
Total BTEX	<0.300	0.300	07/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/18/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2022	ND	194	96.9	200	1.02	
DRO >C10-C28*	<10.0	10.0	07/18/2022	ND	204	102	200	0.523	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 69.7 % 43-149

Surrogate: 1-Chlorooctadecane 80.4 % 42.5-161

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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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

July 25, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON 12/7 B2JK FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 07/19/22 15:03.

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, flowing "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/25/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: WW 7 (H223133-01)

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	07/22/2022	ND	2.09	104	2.00	6.65		
Toluene*	<0.050	0.050	07/22/2022	ND	2.09	104	2.00	3.81		
Ethylbenzene*	<0.050	0.050	07/22/2022	ND	2.14	107	2.00	6.87		
Total Xylenes*	<0.150	0.150	07/22/2022	ND	6.56	109	6.00	7.38		
Total BTEX	<0.300	0.300	07/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	07/20/2022	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	07/21/2022	ND	218	109	200	3.29		
DRO >C10-C28*	<10.0	10.0	07/21/2022	ND	228	114	200	1.93		
EXT DRO >C28-C36	<10.0	10.0	07/21/2022	ND						

Surrogate: 1-Chlorooctane 84.9 % 43-149

Surrogate: 1-Chlorooctadecane 93.3 % 42.5-161

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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/25/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 65 @ 4.5' (H223133-02)

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	07/22/2022	ND	2.09	104	2.00	6.65	
Toluene*	<0.050	0.050	07/22/2022	ND	2.09	104	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/22/2022	ND	2.14	107	2.00	6.87	
Total Xylenes*	<0.150	0.150	07/22/2022	ND	6.56	109	6.00	7.38	
Total BTEX	<0.300	0.300	07/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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	07/20/2022	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	07/21/2022	ND	218	109	200	3.29	
DRO >C10-C28*	<10.0	10.0	07/21/2022	ND	228	114	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	07/21/2022	ND					

Surrogate: 1-Chlorooctane 77.1 % 43-149

Surrogate: 1-Chlorooctadecane 84.0 % 42.5-161

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/25/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 66 @ 6.5' (H223133-03)

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	07/22/2022	ND	2.09	104	2.00	6.65	
Toluene*	<0.050	0.050	07/22/2022	ND	2.09	104	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/22/2022	ND	2.14	107	2.00	6.87	
Total Xylenes*	<0.150	0.150	07/22/2022	ND	6.56	109	6.00	7.38	
Total BTEX	<0.300	0.300	07/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	07/20/2022	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	07/21/2022	ND	218	109	200	3.29	
DRO >C10-C28*	<10.0	10.0	07/21/2022	ND	228	114	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	07/21/2022	ND					

Surrogate: 1-Chlorooctane 71.0 % 43-149

Surrogate: 1-Chlorooctadecane 80.2 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/25/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 68 @ 3.5' (H223133-04)

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	07/22/2022	ND	2.09	104	2.00	6.65	
Toluene*	<0.050	0.050	07/22/2022	ND	2.09	104	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/22/2022	ND	2.14	107	2.00	6.87	
Total Xylenes*	<0.150	0.150	07/22/2022	ND	6.56	109	6.00	7.38	
Total BTEX	<0.300	0.300	07/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	07/20/2022	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	07/21/2022	ND	218	109	200	3.29	
DRO >C10-C28*	<10.0	10.0	07/21/2022	ND	228	114	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	07/21/2022	ND					

Surrogate: 1-Chlorooctane 73.5 % 43-149

Surrogate: 1-Chlorooctadecane 81.4 % 42.5-161

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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/25/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 70 @ 1' (H223133-05)

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	07/22/2022	ND	2.09	104	2.00	6.65	
Toluene*	<0.050	0.050	07/22/2022	ND	2.09	104	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/22/2022	ND	2.14	107	2.00	6.87	
Total Xylenes*	<0.150	0.150	07/22/2022	ND	6.56	109	6.00	7.38	
Total BTEX	<0.300	0.300	07/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	07/20/2022	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	07/21/2022	ND	218	109	200	3.29	
DRO >C10-C28*	<10.0	10.0	07/21/2022	ND	228	114	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	07/21/2022	ND					

Surrogate: 1-Chlorooctane 55.9 % 43-149

Surrogate: 1-Chlorooctadecane 62.1 % 42.5-161

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

July 25, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON 12/7 B2JK FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 07/20/22 15:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/20/2022	Sampling Date:	07/20/2022
Reported:	07/25/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 69 @ 2' (H223174-01)

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	07/22/2022	ND	2.09	104	2.00	8.36	
Toluene*	<0.050	0.050	07/22/2022	ND	2.17	109	2.00	9.11	
Ethylbenzene*	<0.050	0.050	07/22/2022	ND	2.18	109	2.00	7.85	
Total Xylenes*	<0.150	0.150	07/22/2022	ND	6.61	110	6.00	6.60	
Total BTEX	<0.300	0.300	07/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/22/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/22/2022	ND	224	112	200	1.81	
DRO >C10-C28*	<10.0	10.0	07/22/2022	ND	233	116	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	07/22/2022	ND					

Surrogate: 1-Chlorooctane 75.2 % 43-149

Surrogate: 1-Chlorooctadecane 72.5 % 42.5-161

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Analytical Results For:

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

Received:	07/20/2022	Sampling Date:	07/20/2022
Reported:	07/25/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 71 @ 4.5' (H223174-02)

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	07/23/2022	ND	2.05	102	2.00	8.44	
Toluene*	<0.050	0.050	07/23/2022	ND	2.28	114	2.00	8.24	
Ethylbenzene*	<0.050	0.050	07/23/2022	ND	2.23	111	2.00	7.84	
Total Xylenes*	<0.150	0.150	07/23/2022	ND	7.03	117	6.00	8.34	
Total BTEX	<0.300	0.300	07/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	07/22/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/22/2022	ND	224	112	200	1.81	
DRO >C10-C28*	<10.0	10.0	07/22/2022	ND	233	116	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	07/22/2022	ND					

Surrogate: 1-Chlorooctane 86.4 % 43-149

Surrogate: 1-Chlorooctadecane 83.9 % 42.5-161

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Analytical Results For:

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

Received:	07/20/2022	Sampling Date:	07/20/2022
Reported:	07/25/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 72 @ 9' (H223174-03)

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	07/23/2022	ND	2.05	102	2.00	8.44	
Toluene*	<0.050	0.050	07/23/2022	ND	2.28	114	2.00	8.24	
Ethylbenzene*	<0.050	0.050	07/23/2022	ND	2.23	111	2.00	7.84	
Total Xylenes*	<0.150	0.150	07/23/2022	ND	7.03	117	6.00	8.34	
Total BTEX	<0.300	0.300	07/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/22/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/22/2022	ND	224	112	200	1.81	
DRO >C10-C28*	<10.0	10.0	07/22/2022	ND	233	116	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	07/22/2022	ND					

Surrogate: 1-Chlorooctane 86.8 % 43-149

Surrogate: 1-Chlorooctadecane 83.2 % 42.5-161

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Analytical Results For:

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

Received:	07/20/2022	Sampling Date:	07/20/2022
Reported:	07/25/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 73 @ 2' (H223174-04)

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	07/23/2022	ND	2.05	102	2.00	8.44	
Toluene*	<0.050	0.050	07/23/2022	ND	2.28	114	2.00	8.24	
Ethylbenzene*	<0.050	0.050	07/23/2022	ND	2.23	111	2.00	7.84	
Total Xylenes*	<0.150	0.150	07/23/2022	ND	7.03	117	6.00	8.34	
Total BTEX	<0.300	0.300	07/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/22/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/22/2022	ND	224	112	200	1.81	
DRO >C10-C28*	<10.0	10.0	07/22/2022	ND	233	116	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	07/22/2022	ND					

Surrogate: 1-Chlorooctane 88.7 % 43-149

Surrogate: 1-Chlorooctadecane 85.4 % 42.5-161

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Analytical Results For:

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

Received:	07/20/2022	Sampling Date:	07/20/2022
Reported:	07/25/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 74 @ 3.5' (H223174-05)

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	07/23/2022	ND	2.05	102	2.00	8.44	
Toluene*	<0.050	0.050	07/23/2022	ND	2.28	114	2.00	8.24	
Ethylbenzene*	<0.050	0.050	07/23/2022	ND	2.23	111	2.00	7.84	
Total Xylenes*	<0.150	0.150	07/23/2022	ND	7.03	117	6.00	8.34	
Total BTEX	<0.300	0.300	07/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	07/22/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/22/2022	ND	224	112	200	1.81	
DRO >C10-C28*	<10.0	10.0	07/22/2022	ND	233	116	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	07/22/2022	ND					

Surrogate: 1-Chlorooctane 86.8 % 43-149

Surrogate: 1-Chlorooctadecane 81.6 % 42.5-161

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Analytical Results For:

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 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
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Received:	07/20/2022	Sampling Date:	07/20/2022
Reported:	07/25/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 75 @ 2' (H223174-06)

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	07/23/2022	ND	2.05	102	2.00	8.44	
Toluene*	<0.050	0.050	07/23/2022	ND	2.28	114	2.00	8.24	
Ethylbenzene*	<0.050	0.050	07/23/2022	ND	2.23	111	2.00	7.84	
Total Xylenes*	<0.150	0.150	07/23/2022	ND	7.03	117	6.00	8.34	
Total BTEX	<0.300	0.300	07/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	07/22/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/22/2022	ND	224	112	200	1.81	
DRO >C10-C28*	<10.0	10.0	07/22/2022	ND	233	116	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	07/22/2022	ND					

Surrogate: 1-Chlorooctane 84.9 % 43-149

Surrogate: 1-Chlorooctadecane 80.7 % 42.5-161

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Analytical Results For:

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

Received:	07/20/2022	Sampling Date:	07/20/2022
Reported:	07/25/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 76 @ 2' (H223174-07)

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	07/23/2022	ND	2.05	102	2.00	8.44	
Toluene*	<0.050	0.050	07/23/2022	ND	2.28	114	2.00	8.24	
Ethylbenzene*	<0.050	0.050	07/23/2022	ND	2.23	111	2.00	7.84	
Total Xylenes*	<0.150	0.150	07/23/2022	ND	7.03	117	6.00	8.34	
Total BTEX	<0.300	0.300	07/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/22/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/22/2022	ND	224	112	200	1.81	
DRO >C10-C28*	<10.0	10.0	07/22/2022	ND	233	116	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	07/22/2022	ND					

Surrogate: 1-Chlorooctane 80.9 % 43-149

Surrogate: 1-Chlorooctadecane 78.1 % 42.5-161

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Analytical Results For:

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

Received:	07/20/2022	Sampling Date:	07/20/2022
Reported:	07/25/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 77 @ 5.5' (H223174-08)

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	07/23/2022	ND	2.05	102	2.00	8.44	
Toluene*	<0.050	0.050	07/23/2022	ND	2.28	114	2.00	8.24	
Ethylbenzene*	<0.050	0.050	07/23/2022	ND	2.23	111	2.00	7.84	
Total Xylenes*	<0.150	0.150	07/23/2022	ND	7.03	117	6.00	8.34	
Total BTEX	<0.300	0.300	07/23/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	07/22/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/22/2022	ND	224	112	200	1.81	
DRO >C10-C28*	<10.0	10.0	07/22/2022	ND	233	116	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	07/22/2022	ND					

Surrogate: 1-Chlorooctane 82.5 % 43-149

Surrogate: 1-Chlorooctadecane 78.2 % 42.5-161

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Analytical Results For:

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

Received:	07/20/2022	Sampling Date:	07/20/2022
Reported:	07/25/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 78 @ 5.5' (H223174-09)

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	07/23/2022	ND	2.05	102	2.00	8.44	
Toluene*	<0.050	0.050	07/23/2022	ND	2.28	114	2.00	8.24	
Ethylbenzene*	<0.050	0.050	07/23/2022	ND	2.23	111	2.00	7.84	
Total Xylenes*	<0.150	0.150	07/23/2022	ND	7.03	117	6.00	8.34	
Total BTEX	<0.300	0.300	07/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	07/22/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/22/2022	ND	224	112	200	1.81	
DRO >C10-C28*	<10.0	10.0	07/22/2022	ND	233	116	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	07/22/2022	ND					

Surrogate: 1-Chlorooctane 80.0 % 43-149

Surrogate: 1-Chlorooctadecane 75.1 % 42.5-161

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Analytical Results For:

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

Received:	07/20/2022	Sampling Date:	07/20/2022
Reported:	07/25/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 79 @ 2' (H223174-10)

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	07/23/2022	ND	2.05	102	2.00	8.44	
Toluene*	<0.050	0.050	07/23/2022	ND	2.28	114	2.00	8.24	
Ethylbenzene*	<0.050	0.050	07/23/2022	ND	2.23	111	2.00	7.84	
Total Xylenes*	<0.150	0.150	07/23/2022	ND	7.03	117	6.00	8.34	
Total BTEX	<0.300	0.300	07/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/22/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/22/2022	ND	224	112	200	1.81	
DRO >C10-C28*	<10.0	10.0	07/22/2022	ND	233	116	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	07/22/2022	ND					

Surrogate: 1-Chlorooctane 82.7 % 43-149

Surrogate: 1-Chlorooctadecane 80.2 % 42.5-161

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*=Accredited Analyte

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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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Routine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



CARDINAL LABORATORIES

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

Company Name: Etech Environmental & Safety Solutions, Inc.
Project Manager: Lance Crenshaw
Address: 2617 W Marland
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 16072 Project Owner: Robbie Runnels
Project Name: Ziscon 12/7 B2JK Fed Com IH
Project Location: Mewbourne Oil Company
Sampler Name: Eric Mojica

Table with columns: Lab I.D., Sample I.D., (GRAB OR (C)OMP. # CONTAINERS, MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV. (ACID/BASE, ICE/FOOT, OTHER), SAMPLING (DATE, TIME), Chloride, TPH (8015M), BTEX (8021B)

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Relinquished By: Eric Mojica Date: 7-20-22 Time: 1:30
Received By: [Signature]
Delivered By: (Circle One) 4.9: C-0.6c
Sampler - UPS - Bus - Other: 4.3c #113
Sample Condition: Cool Intact
CHECKED BY: [Signature]



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

July 26, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON 12/7 B2JK FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 07/21/22 16:31.

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:	07/21/2022	Sampling Date:	07/20/2022
Reported:	07/26/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 80 @ 2' (H223208-01)

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	07/25/2022	ND	2.20	110	2.00	4.86	
Toluene*	<0.050	0.050	07/25/2022	ND	2.28	114	2.00	5.03	
Ethylbenzene*	<0.050	0.050	07/25/2022	ND	2.33	117	2.00	5.02	
Total Xylenes*	<0.150	0.150	07/25/2022	ND	7.11	119	6.00	4.51	
Total BTEX	<0.300	0.300	07/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/25/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2022	ND	226	113	200	10.7	QM-07
DRO >C10-C28*	<10.0	10.0	07/25/2022	ND	229	114	200	23.6	
EXT DRO >C28-C36	<10.0	10.0	07/25/2022	ND					

Surrogate: 1-Chlorooctane 102 % 43-149

Surrogate: 1-Chlorooctadecane 104 % 42.5-161

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Analytical Results For:

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 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/21/2022	Sampling Date:	07/21/2022
Reported:	07/26/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 81 @ 2' (H223208-02)

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	07/25/2022	ND	2.20	110	2.00	4.86	
Toluene*	<0.050	0.050	07/25/2022	ND	2.28	114	2.00	5.03	
Ethylbenzene*	<0.050	0.050	07/25/2022	ND	2.33	117	2.00	5.02	
Total Xylenes*	<0.150	0.150	07/25/2022	ND	7.11	119	6.00	4.51	
Total BTEX	<0.300	0.300	07/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/25/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2022	ND	226	113	200	10.7	
DRO >C10-C28*	<10.0	10.0	07/25/2022	ND	229	114	200	23.6	
EXT DRO >C28-C36	<10.0	10.0	07/25/2022	ND					

Surrogate: 1-Chlorooctane 97.7 % 43-149

Surrogate: 1-Chlorooctadecane 97.8 % 42.5-161

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Analytical Results For:

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

Received:	07/21/2022	Sampling Date:	07/21/2022
Reported:	07/26/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 82 @ 2' (H223208-03)

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	07/25/2022	ND	2.20	110	2.00	4.86	
Toluene*	<0.050	0.050	07/25/2022	ND	2.28	114	2.00	5.03	
Ethylbenzene*	<0.050	0.050	07/25/2022	ND	2.33	117	2.00	5.02	
Total Xylenes*	<0.150	0.150	07/25/2022	ND	7.11	119	6.00	4.51	
Total BTEX	<0.300	0.300	07/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/25/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2022	ND	226	113	200	10.7	
DRO >C10-C28*	<10.0	10.0	07/25/2022	ND	229	114	200	23.6	
EXT DRO >C28-C36	<10.0	10.0	07/25/2022	ND					

Surrogate: 1-Chlorooctane 109 % 43-149

Surrogate: 1-Chlorooctadecane 110 % 42.5-161

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received:	07/21/2022	Sampling Date:	07/21/2022
Reported:	07/26/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 83 @ 2' (H223208-04)

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	07/25/2022	ND	2.20	110	2.00	4.86	
Toluene*	<0.050	0.050	07/25/2022	ND	2.28	114	2.00	5.03	
Ethylbenzene*	<0.050	0.050	07/25/2022	ND	2.33	117	2.00	5.02	
Total Xylenes*	<0.150	0.150	07/25/2022	ND	7.11	119	6.00	4.51	
Total BTEX	<0.300	0.300	07/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/25/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2022	ND	226	113	200	10.7	
DRO >C10-C28*	<10.0	10.0	07/25/2022	ND	229	114	200	23.6	
EXT DRO >C28-C36	<10.0	10.0	07/25/2022	ND					

Surrogate: 1-Chlorooctane 88.7 % 43-149

Surrogate: 1-Chlorooctadecane 91.3 % 42.5-161

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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:	07/21/2022	Sampling Date:	07/21/2022
Reported:	07/26/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 84 @ 5' (H223208-05)

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	07/25/2022	ND	2.20	110	2.00	4.86	
Toluene*	<0.050	0.050	07/25/2022	ND	2.28	114	2.00	5.03	
Ethylbenzene*	<0.050	0.050	07/25/2022	ND	2.33	117	2.00	5.02	
Total Xylenes*	<0.150	0.150	07/25/2022	ND	7.11	119	6.00	4.51	
Total BTEX	<0.300	0.300	07/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	07/25/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2022	ND	226	113	200	10.7	
DRO >C10-C28*	<10.0	10.0	07/25/2022	ND	229	114	200	23.6	
EXT DRO >C28-C36	<10.0	10.0	07/25/2022	ND					

Surrogate: 1-Chlorooctane 98.5 % 43-149

Surrogate: 1-Chlorooctadecane 100 % 42.5-161

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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:	07/21/2022	Sampling Date:	07/21/2022
Reported:	07/26/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 85 @ 2' (H223208-06)

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	07/25/2022	ND	2.20	110	2.00	4.86	
Toluene*	<0.050	0.050	07/25/2022	ND	2.28	114	2.00	5.03	
Ethylbenzene*	<0.050	0.050	07/25/2022	ND	2.33	117	2.00	5.02	
Total Xylenes*	<0.150	0.150	07/25/2022	ND	7.11	119	6.00	4.51	
Total BTEX	<0.300	0.300	07/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/25/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2022	ND	226	113	200	10.7	
DRO >C10-C28*	<10.0	10.0	07/25/2022	ND	229	114	200	23.6	
EXT DRO >C28-C36	<10.0	10.0	07/25/2022	ND					

Surrogate: 1-Chlorooctane 96.4 % 43-149

Surrogate: 1-Chlorooctadecane 99.5 % 42.5-161

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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:	07/21/2022	Sampling Date:	07/21/2022
Reported:	07/26/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 86 @ 2' (H223208-07)

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	07/25/2022	ND	2.20	110	2.00	4.86	
Toluene*	<0.050	0.050	07/25/2022	ND	2.28	114	2.00	5.03	
Ethylbenzene*	<0.050	0.050	07/25/2022	ND	2.33	117	2.00	5.02	
Total Xylenes*	<0.150	0.150	07/25/2022	ND	7.11	119	6.00	4.51	
Total BTEX	<0.300	0.300	07/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/25/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2022	ND	226	113	200	10.7	
DRO >C10-C28*	<10.0	10.0	07/25/2022	ND	229	114	200	23.6	
EXT DRO >C28-C36	<10.0	10.0	07/25/2022	ND					

Surrogate: 1-Chlorooctane 104 % 43-149

Surrogate: 1-Chlorooctadecane 110 % 42.5-161

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:	07/21/2022	Sampling Date:	07/21/2022
Reported:	07/26/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 87 @ 2' (H223208-08)

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	07/25/2022	ND	2.20	110	2.00	4.86	
Toluene*	<0.050	0.050	07/25/2022	ND	2.28	114	2.00	5.03	
Ethylbenzene*	<0.050	0.050	07/25/2022	ND	2.33	117	2.00	5.02	
Total Xylenes*	<0.150	0.150	07/25/2022	ND	7.11	119	6.00	4.51	
Total BTEX	<0.300	0.300	07/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/25/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2022	ND	226	113	200	10.7	
DRO >C10-C28*	<10.0	10.0	07/25/2022	ND	229	114	200	23.6	
EXT DRO >C28-C36	<10.0	10.0	07/25/2022	ND					

Surrogate: 1-Chlorooctane 94.0 % 43-149

Surrogate: 1-Chlorooctadecane 94.6 % 42.5-161

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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:	07/21/2022	Sampling Date:	07/21/2022
Reported:	07/26/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 88 @ 2' (H223208-09)

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	07/25/2022	ND	2.20	110	2.00	4.86	
Toluene*	<0.050	0.050	07/25/2022	ND	2.28	114	2.00	5.03	
Ethylbenzene*	<0.050	0.050	07/25/2022	ND	2.33	117	2.00	5.02	
Total Xylenes*	<0.150	0.150	07/25/2022	ND	7.11	119	6.00	4.51	
Total BTEX	<0.300	0.300	07/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/25/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2022	ND	226	113	200	10.7	
DRO >C10-C28*	<10.0	10.0	07/25/2022	ND	229	114	200	23.6	
EXT DRO >C28-C36	<10.0	10.0	07/25/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 43-149

Surrogate: 1-Chlorooctadecane 99.4 % 42.5-161

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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:	07/21/2022	Sampling Date:	07/21/2022
Reported:	07/26/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: WW 8 (H223208-10)

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	07/25/2022	ND	2.20	110	2.00	4.86	
Toluene*	<0.050	0.050	07/25/2022	ND	2.28	114	2.00	5.03	
Ethylbenzene*	<0.050	0.050	07/25/2022	ND	2.33	117	2.00	5.02	
Total Xylenes*	<0.150	0.150	07/25/2022	ND	7.11	119	6.00	4.51	
Total BTEX	<0.300	0.300	07/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/25/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2022	ND	226	113	200	10.7	
DRO >C10-C28*	<10.0	10.0	07/25/2022	ND	229	114	200	23.6	
EXT DRO >C28-C36	<10.0	10.0	07/25/2022	ND					

Surrogate: 1-Chlorooctane 89.6 % 43-149

Surrogate: 1-Chlorooctadecane 91.4 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
A-01 Ending CCV failed high - all associated samples ND.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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. #:																												
Address: 2617 W Marland		Company: Mewbourne																												
City: Hobbs State: NM Zip: 88240		Attn: Robbie Runnels																												
Phone #: (575) 264-9884 Fax #:		Address: 4801 Business Pk Blvd																												
Project #: 16072 Project Owner: Robbie Runnels		City: Hobbs																												
Project Name: Zircon 12/782JK Fed Com IH		State: NM Zip: 88240																												
Project Location: Mewbourne Oil Company		Phone #:																												
Sampler Name: Eric Mojica		Fax #:																												
FOR LAB USE ONLY																														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING		Chloride	TPH (8015M)	BTEX (8021B)																
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE /FOOT				OTHER :	DATE	TIME													
H223208																														
1	FS 80e2	C	1			✓				✓						7-20-22		✓	✓	✓										
2	FS 81e2	C	1			✓				✓						7-21-22		✓	✓	✓										
3	FS 82e2	C	1			✓				✓								✓	✓	✓										
4	FS 83e2	C	1			✓				✓								✓	✓	✓										
5	FS 84e5	C	1			✓				✓								✓	✓	✓										
6	FS 85e2	C	1			✓				✓								✓	✓	✓										
7	FS 86e2	C	1			✓				✓								✓	✓	✓										
8	FS 87e2	C	1			✓				✓					✓	✓	✓													
9	FS 88e2	C	1			✓				✓					✓	✓	✓													
10	WW 8	C	1			✓				✓					✓	✓	✓													
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Relinquished By: Eric Mojica		Date: 7-21-22		Time: 16:31		Received By: Tamara Oldaker		Date:		Time:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Add'l Fax #:												
Delivered By: (Circle One) 5.9e C-0.6e		Sampler - UPS - Bus - Other: 5.3e #113		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		CHECKED BY: (Initials) T.O.		REMARKS: Please email results and copy of CoC to pm@etechenv.com.																						



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

July 28, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON 12/7 B2JK FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 07/22/22 15:11.

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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 89 @ 2' (H223234-01)

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	07/26/2022	ND	2.00	99.8	2.00	4.89	
Toluene*	<0.050	0.050	07/26/2022	ND	2.22	111	2.00	2.35	
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.09	105	2.00	7.09	
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.55	109	6.00	7.89	
Total BTEX	<0.300	0.300	07/26/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/26/2022	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	07/26/2022	ND	200	100	200	5.43	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 93.6 % 43-149

Surrogate: 1-Chlorooctadecane 96.8 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 90 @ 2' (H223234-02)

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	07/26/2022	ND	2.00	99.8	2.00	4.89	
Toluene*	<0.050	0.050	07/26/2022	ND	2.22	111	2.00	2.35	
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.09	105	2.00	7.09	
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.55	109	6.00	7.89	
Total BTEX	<0.300	0.300	07/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/26/2022	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	07/26/2022	ND	200	100	200	5.43	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 97.4 % 43-149

Surrogate: 1-Chlorooctadecane 103 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 91 @ 2' (H223234-03)

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	07/26/2022	ND	2.00	99.8	2.00	4.89	
Toluene*	<0.050	0.050	07/26/2022	ND	2.22	111	2.00	2.35	
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.09	105	2.00	7.09	
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.55	109	6.00	7.89	
Total BTEX	<0.300	0.300	07/26/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	07/26/2022	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	07/26/2022	ND	200	100	200	5.43	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 96.7 % 43-149

Surrogate: 1-Chlorooctadecane 103 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 92 @ 2' (H223234-04)

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	07/26/2022	ND	1.94	97.2	2.00	0.932	
Toluene*	<0.050	0.050	07/26/2022	ND	2.07	103	2.00	2.76	
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.01	101	2.00	0.988	
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.29	105	6.00	1.22	
Total BTEX	<0.300	0.300	07/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/26/2022	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	07/26/2022	ND	200	100	200	5.43	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 96.7 % 43-149

Surrogate: 1-Chlorooctadecane 102 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: SW 2 (H223234-05)

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	07/26/2022	ND	1.94	97.2	2.00	0.932		
Toluene*	<0.050	0.050	07/26/2022	ND	2.07	103	2.00	2.76		
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.01	101	2.00	0.988		
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.29	105	6.00	1.22		
Total BTEX	<0.300	0.300	07/26/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/27/2022	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	07/26/2022	ND	178	88.8	200	5.53		
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	186	93.1	200	5.17		
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND						

Surrogate: 1-Chlorooctane 78.8 % 43-149

Surrogate: 1-Chlorooctadecane 86.5 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: SW 3 (H223234-06)

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	07/26/2022	ND	1.94	97.2	2.00	0.932		
Toluene*	<0.050	0.050	07/26/2022	ND	2.07	103	2.00	2.76		
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.01	101	2.00	0.988		
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.29	105	6.00	1.22		
Total BTEX	<0.300	0.300	07/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	07/27/2022	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	07/26/2022	ND	178	88.8	200	5.53		
DRO >C10-C28*	351	10.0	07/26/2022	ND	186	93.1	200	5.17		
EXT DRO >C28-C36	71.2	10.0	07/26/2022	ND						

Surrogate: 1-Chlorooctane 71.2 % 43-149

Surrogate: 1-Chlorooctadecane 114 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: EW 6 (H223234-07)

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	07/26/2022	ND	1.94	97.2	2.00	0.932	
Toluene*	0.074	0.050	07/26/2022	ND	2.07	103	2.00	2.76	
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.01	101	2.00	0.988	
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.29	105	6.00	1.22	
Total BTEX	<0.300	0.300	07/26/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/27/2022	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	07/26/2022	ND	193	96.5	200	25.9	QM-07
DRO >C10-C28*	11.5	10.0	07/26/2022	ND	165	82.4	200	25.7	
EXT DRO >C28-C36	13.7	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 108 % 43-149

Surrogate: 1-Chlorooctadecane 116 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: EW 7 (H223234-08)

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	07/26/2022	ND	1.94	97.2	2.00	0.932	
Toluene*	<0.050	0.050	07/26/2022	ND	2.07	103	2.00	2.76	
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.01	101	2.00	0.988	
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.29	105	6.00	1.22	
Total BTEX	<0.300	0.300	07/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/27/2022	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	07/26/2022	ND	193	96.5	200	25.9	
DRO >C10-C28*	10.5	10.0	07/26/2022	ND	165	82.4	200	25.7	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 95.7 % 43-149

Surrogate: 1-Chlorooctadecane 102 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: EW 8 (H223234-09)

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	07/26/2022	ND	1.94	97.2	2.00	0.932	
Toluene*	<0.050	0.050	07/26/2022	ND	2.07	103	2.00	2.76	
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.01	101	2.00	0.988	
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.29	105	6.00	1.22	
Total BTEX	<0.300	0.300	07/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/27/2022	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	07/26/2022	ND	193	96.5	200	25.9	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	165	82.4	200	25.7	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 82.9 % 43-149

Surrogate: 1-Chlorooctadecane 89.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: EW 9 (H223234-10)

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	07/26/2022	ND	1.94	97.2	2.00	0.932	
Toluene*	<0.050	0.050	07/26/2022	ND	2.07	103	2.00	2.76	
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.01	101	2.00	0.988	
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.29	105	6.00	1.22	
Total BTEX	<0.300	0.300	07/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/27/2022	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	07/26/2022	ND	193	96.5	200	25.9	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	165	82.4	200	25.7	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 95.5 % 43-149

Surrogate: 1-Chlorooctadecane 102 % 42.5-161

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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

August 01, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON 12/7 B2JK FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 07/27/22 8:55.

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.

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:	07/27/2022	Sampling Date:	07/26/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: NW 6 (H223293-01)

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	07/28/2022	ND	2.04	102	2.00	3.64	
Toluene*	<0.050	0.050	07/28/2022	ND	2.10	105	2.00	3.16	
Ethylbenzene*	<0.050	0.050	07/28/2022	ND	2.11	106	2.00	3.87	
Total Xylenes*	<0.150	0.150	07/28/2022	ND	6.44	107	6.00	4.01	
Total BTEX	<0.300	0.300	07/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	400	16.0	07/28/2022	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	07/28/2022	ND	212	106	200	1.28	
DRO >C10-C28*	91.9	10.0	07/28/2022	ND	223	112	200	2.34	
EXT DRO >C28-C36	104	10.0	07/28/2022	ND					

Surrogate: 1-Chlorooctane 79.7 % 43-149

Surrogate: 1-Chlorooctadecane 90.4 % 42.5-161

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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:	07/27/2022	Sampling Date:	07/26/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: NW 7 (H223293-02)

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	07/28/2022	ND	2.04	102	2.00	3.64	
Toluene*	<0.050	0.050	07/28/2022	ND	2.10	105	2.00	3.16	
Ethylbenzene*	<0.050	0.050	07/28/2022	ND	2.11	106	2.00	3.87	
Total Xylenes*	<0.150	0.150	07/28/2022	ND	6.44	107	6.00	4.01	
Total BTEX	<0.300	0.300	07/28/2022	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	576	16.0	07/28/2022	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	07/28/2022	ND	212	106	200	1.28	
DRO >C10-C28*	<10.0	10.0	07/28/2022	ND	223	112	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	07/28/2022	ND					

Surrogate: 1-Chlorooctane 86.6 % 43-149

Surrogate: 1-Chlorooctadecane 96.8 % 42.5-161

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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:	07/27/2022	Sampling Date:	07/26/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 93 @ 3' (H223293-03)

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	07/28/2022	ND	2.04	102	2.00	3.64	
Toluene*	<0.050	0.050	07/28/2022	ND	2.10	105	2.00	3.16	
Ethylbenzene*	<0.050	0.050	07/28/2022	ND	2.11	106	2.00	3.87	
Total Xylenes*	<0.150	0.150	07/28/2022	ND	6.44	107	6.00	4.01	
Total BTEX	<0.300	0.300	07/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	07/28/2022	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	07/28/2022	ND	212	106	200	1.28	
DRO >C10-C28*	<10.0	10.0	07/28/2022	ND	223	112	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	07/28/2022	ND					

Surrogate: 1-Chlorooctane 83.8 % 43-149

Surrogate: 1-Chlorooctadecane 94.3 % 42.5-161

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Analytical Results For:

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

Received:	07/27/2022	Sampling Date:	07/26/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 94 @ 1' (H223293-04)

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	07/28/2022	ND	2.04	102	2.00	3.64	
Toluene*	<0.050	0.050	07/28/2022	ND	2.10	105	2.00	3.16	
Ethylbenzene*	<0.050	0.050	07/28/2022	ND	2.11	106	2.00	3.87	
Total Xylenes*	<0.150	0.150	07/28/2022	ND	6.44	107	6.00	4.01	
Total BTEX	<0.300	0.300	07/28/2022	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	112	16.0	07/28/2022	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	07/28/2022	ND	212	106	200	1.28	
DRO >C10-C28*	<10.0	10.0	07/28/2022	ND	223	112	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	07/28/2022	ND					

Surrogate: 1-Chlorooctane 85.0 % 43-149

Surrogate: 1-Chlorooctadecane 95.0 % 42.5-161

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Analytical Results For:

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

Received:	07/27/2022	Sampling Date:	07/26/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 95 @ 1' (H223293-05)

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	07/28/2022	ND	2.04	102	2.00	3.64	
Toluene*	<0.050	0.050	07/28/2022	ND	2.10	105	2.00	3.16	
Ethylbenzene*	<0.050	0.050	07/28/2022	ND	2.11	106	2.00	3.87	
Total Xylenes*	<0.150	0.150	07/28/2022	ND	6.44	107	6.00	4.01	
Total BTEX	<0.300	0.300	07/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/28/2022	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	07/28/2022	ND	212	106	200	1.28	
DRO >C10-C28*	<10.0	10.0	07/28/2022	ND	223	112	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	07/28/2022	ND					

Surrogate: 1-Chlorooctane 90.6 % 43-149

Surrogate: 1-Chlorooctadecane 105 % 42.5-161

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Analytical Results For:

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

Received:	07/27/2022	Sampling Date:	07/26/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 96 @ 1' (H223293-06)

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	07/28/2022	ND	2.04	102	2.00	3.64	
Toluene*	<0.050	0.050	07/28/2022	ND	2.10	105	2.00	3.16	
Ethylbenzene*	<0.050	0.050	07/28/2022	ND	2.11	106	2.00	3.87	
Total Xylenes*	<0.150	0.150	07/28/2022	ND	6.44	107	6.00	4.01	
Total BTEX	<0.300	0.300	07/28/2022	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	32.0	16.0	07/28/2022	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	07/28/2022	ND	212	106	200	1.28	
DRO >C10-C28*	<10.0	10.0	07/28/2022	ND	223	112	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	07/28/2022	ND					

Surrogate: 1-Chlorooctane 78.6 % 43-149

Surrogate: 1-Chlorooctadecane 86.4 % 42.5-161

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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:	07/27/2022	Sampling Date:	07/26/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 97 @ 1' (H223293-07)

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	07/28/2022	ND	2.04	102	2.00	3.64	
Toluene*	<0.050	0.050	07/28/2022	ND	2.10	105	2.00	3.16	
Ethylbenzene*	<0.050	0.050	07/28/2022	ND	2.11	106	2.00	3.87	
Total Xylenes*	<0.150	0.150	07/28/2022	ND	6.44	107	6.00	4.01	
Total BTEX	<0.300	0.300	07/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/28/2022	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	07/28/2022	ND	212	106	200	1.28	
DRO >C10-C28*	<10.0	10.0	07/28/2022	ND	223	112	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	07/28/2022	ND					

Surrogate: 1-Chlorooctane 80.1 % 43-149

Surrogate: 1-Chlorooctadecane 92.3 % 42.5-161

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Analytical Results For:

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

Received:	07/27/2022	Sampling Date:	07/26/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 98 @ 5.5' (H223293-08)

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	07/28/2022	ND	2.04	102	2.00	3.64	
Toluene*	<0.050	0.050	07/28/2022	ND	2.10	105	2.00	3.16	
Ethylbenzene*	<0.050	0.050	07/28/2022	ND	2.11	106	2.00	3.87	
Total Xylenes*	<0.150	0.150	07/28/2022	ND	6.44	107	6.00	4.01	
Total BTEX	<0.300	0.300	07/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	07/28/2022	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	07/28/2022	ND	212	106	200	1.28	
DRO >C10-C28*	<10.0	10.0	07/28/2022	ND	223	112	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	07/28/2022	ND					

Surrogate: 1-Chlorooctane 75.7 % 43-149

Surrogate: 1-Chlorooctadecane 84.6 % 42.5-161

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/27/2022	Sampling Date:	07/26/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 99 @ 4' (H223293-09)

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	07/28/2022	ND	2.04	102	2.00	3.64	
Toluene*	<0.050	0.050	07/28/2022	ND	2.10	105	2.00	3.16	
Ethylbenzene*	<0.050	0.050	07/28/2022	ND	2.11	106	2.00	3.87	
Total Xylenes*	<0.150	0.150	07/28/2022	ND	6.44	107	6.00	4.01	
Total BTEX	<0.300	0.300	07/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	07/28/2022	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	07/28/2022	ND	212	106	200	1.28	
DRO >C10-C28*	<10.0	10.0	07/28/2022	ND	223	112	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	07/28/2022	ND					

Surrogate: 1-Chlorooctane 85.9 % 43-149

Surrogate: 1-Chlorooctadecane 97.9 % 42.5-161

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Analytical Results For:

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

Received:	07/27/2022	Sampling Date:	07/26/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 100 @ 1' (H223293-10)

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	07/28/2022	ND	2.04	102	2.00	3.64	
Toluene*	<0.050	0.050	07/28/2022	ND	2.10	105	2.00	3.16	
Ethylbenzene*	<0.050	0.050	07/28/2022	ND	2.11	106	2.00	3.87	
Total Xylenes*	<0.150	0.150	07/28/2022	ND	6.44	107	6.00	4.01	
Total BTEX	<0.300	0.300	07/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	07/28/2022	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	07/28/2022	ND	212	106	200	1.28	
DRO >C10-C28*	<10.0	10.0	07/28/2022	ND	223	112	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	07/28/2022	ND					

Surrogate: 1-Chlorooctane 80.6 % 43-149

Surrogate: 1-Chlorooctadecane 89.0 % 42.5-161

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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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August 01, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON 12/7 B2JK FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 07/28/22 15:26.

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, flowing "C" at the beginning.

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:	07/28/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 101 @ 1' (H223339-01)

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	07/30/2022	ND	2.01	100	2.00	1.43	
Toluene*	<0.050	0.050	07/30/2022	ND	2.10	105	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/30/2022	ND	2.14	107	2.00	1.57	
Total Xylenes*	<0.150	0.150	07/30/2022	ND	6.55	109	6.00	1.04	
Total BTEX	<0.300	0.300	07/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2022	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	07/29/2022	ND	200	99.9	200	2.13	
DRO >C10-C28*	<10.0	10.0	07/29/2022	ND	214	107	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	07/29/2022	ND					

Surrogate: 1-Chlorooctane 79.7 % 43-149

Surrogate: 1-Chlorooctadecane 93.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/28/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 102 @ 1' (H223339-02)

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	07/30/2022	ND	2.01	100	2.00	1.43	
Toluene*	<0.050	0.050	07/30/2022	ND	2.10	105	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/30/2022	ND	2.14	107	2.00	1.57	
Total Xylenes*	<0.150	0.150	07/30/2022	ND	6.55	109	6.00	1.04	
Total BTEX	<0.300	0.300	07/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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	64.0	16.0	08/01/2022	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	07/29/2022	ND	200	99.9	200	2.13	
DRO >C10-C28*	<10.0	10.0	07/29/2022	ND	214	107	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	07/29/2022	ND					

Surrogate: 1-Chlorooctane 78.8 % 43-149

Surrogate: 1-Chlorooctadecane 93.7 % 42.5-161

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/28/2022	Sampling Date:	07/28/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 103 @ 1' (H223339-03)

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	07/30/2022	ND	2.01	100	2.00	1.43	
Toluene*	<0.050	0.050	07/30/2022	ND	2.10	105	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/30/2022	ND	2.14	107	2.00	1.57	
Total Xylenes*	<0.150	0.150	07/30/2022	ND	6.55	109	6.00	1.04	
Total BTEX	<0.300	0.300	07/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2022	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	07/29/2022	ND	218	109	200	4.25	
DRO >C10-C28*	<10.0	10.0	07/29/2022	ND	226	113	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	07/29/2022	ND					

Surrogate: 1-Chlorooctane 85.2 % 43-149

Surrogate: 1-Chlorooctadecane 98.0 % 42.5-161

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/28/2022	Sampling Date:	07/28/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 104 @ 4.5' (H223339-04)

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	07/30/2022	ND	2.01	100	2.00	1.43	
Toluene*	<0.050	0.050	07/30/2022	ND	2.10	105	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/30/2022	ND	2.14	107	2.00	1.57	
Total Xylenes*	<0.150	0.150	07/30/2022	ND	6.55	109	6.00	1.04	
Total BTEX	<0.300	0.300	07/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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	48.0	16.0	08/01/2022	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	07/29/2022	ND	218	109	200	4.25	
DRO >C10-C28*	<10.0	10.0	07/29/2022	ND	226	113	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	07/29/2022	ND					

Surrogate: 1-Chlorooctane 95.9 % 43-149

Surrogate: 1-Chlorooctadecane 112 % 42.5-161

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Analytical Results For:

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

Received:	07/28/2022	Sampling Date:	07/28/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 105 @ 1' (H223339-05)

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	07/30/2022	ND	2.01	100	2.00	1.43	
Toluene*	<0.050	0.050	07/30/2022	ND	2.10	105	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/30/2022	ND	2.14	107	2.00	1.57	
Total Xylenes*	<0.150	0.150	07/30/2022	ND	6.55	109	6.00	1.04	
Total BTEX	<0.300	0.300	07/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2022	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	07/29/2022	ND	218	109	200	4.25	
DRO >C10-C28*	<10.0	10.0	07/29/2022	ND	226	113	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	07/29/2022	ND					

Surrogate: 1-Chlorooctane 93.5 % 43-149

Surrogate: 1-Chlorooctadecane 108 % 42.5-161

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Analytical Results For:

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

Received:	07/28/2022	Sampling Date:	07/28/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 106 @ 3' (H223339-06)

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	07/30/2022	ND	2.01	100	2.00	1.43	
Toluene*	<0.050	0.050	07/30/2022	ND	2.10	105	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/30/2022	ND	2.14	107	2.00	1.57	
Total Xylenes*	<0.150	0.150	07/30/2022	ND	6.55	109	6.00	1.04	
Total BTEX	<0.300	0.300	07/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/01/2022	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	07/29/2022	ND	218	109	200	4.25	
DRO >C10-C28*	<10.0	10.0	07/29/2022	ND	226	113	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	07/29/2022	ND					

Surrogate: 1-Chlorooctane 56.7 % 43-149

Surrogate: 1-Chlorooctadecane 73.5 % 42.5-161

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Analytical Results For:

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

Received:	07/28/2022	Sampling Date:	07/28/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 107 @ 2.5' (H223339-07)

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	07/30/2022	ND	2.01	100	2.00	1.43		
Toluene*	<0.050	0.050	07/30/2022	ND	2.10	105	2.00	1.11		
Ethylbenzene*	<0.050	0.050	07/30/2022	ND	2.14	107	2.00	1.57		
Total Xylenes*	<0.150	0.150	07/30/2022	ND	6.55	109	6.00	1.04		
Total BTEX	<0.300	0.300	07/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	08/01/2022	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	07/29/2022	ND	218	109	200	4.25		
DRO >C10-C28*	<10.0	10.0	07/29/2022	ND	226	113	200	1.90		
EXT DRO >C28-C36	<10.0	10.0	07/29/2022	ND						

Surrogate: 1-Chlorooctane 95.3 % 43-149

Surrogate: 1-Chlorooctadecane 110 % 42.5-161

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Analytical Results For:

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

Received:	07/28/2022	Sampling Date:	07/28/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 108 @ 3' (H223339-08)

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	07/30/2022	ND	2.01	100	2.00	1.43	
Toluene*	<0.050	0.050	07/30/2022	ND	2.10	105	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/30/2022	ND	2.14	107	2.00	1.57	
Total Xylenes*	<0.150	0.150	07/30/2022	ND	6.55	109	6.00	1.04	
Total BTEX	<0.300	0.300	07/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	08/01/2022	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	07/29/2022	ND	218	109	200	4.25	
DRO >C10-C28*	<10.0	10.0	07/29/2022	ND	226	113	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	07/29/2022	ND					

Surrogate: 1-Chlorooctane 75.7 % 43-149

Surrogate: 1-Chlorooctadecane 87.6 % 42.5-161

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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:	07/28/2022	Sampling Date:	07/28/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 109 @ 1' (H223339-09)

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	07/30/2022	ND	2.01	100	2.00	1.43	
Toluene*	<0.050	0.050	07/30/2022	ND	2.10	105	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/30/2022	ND	2.14	107	2.00	1.57	
Total Xylenes*	<0.150	0.150	07/30/2022	ND	6.55	109	6.00	1.04	
Total BTEX	<0.300	0.300	07/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2022	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	07/29/2022	ND	218	109	200	4.25	
DRO >C10-C28*	<10.0	10.0	07/29/2022	ND	226	113	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	07/29/2022	ND					

Surrogate: 1-Chlorooctane 97.5 % 43-149

Surrogate: 1-Chlorooctadecane 113 % 42.5-161

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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:	07/28/2022	Sampling Date:	07/28/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 110 @ 1.5' (H223339-10)

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	07/30/2022	ND	2.01	100	2.00	1.43		
Toluene*	<0.050	0.050	07/30/2022	ND	2.10	105	2.00	1.11		
Ethylbenzene*	<0.050	0.050	07/30/2022	ND	2.14	107	2.00	1.57		
Total Xylenes*	<0.150	0.150	07/30/2022	ND	6.55	109	6.00	1.04		
Total BTEX	<0.300	0.300	07/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/01/2022	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	07/29/2022	ND	218	109	200	4.25		
DRO >C10-C28*	<10.0	10.0	07/29/2022	ND	226	113	200	1.90		
EXT DRO >C28-C36	<10.0	10.0	07/29/2022	ND						

Surrogate: 1-Chlorooctane 98.1 % 43-149

Surrogate: 1-Chlorooctadecane 116 % 42.5-161

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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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Celey D. Keene, Lab Director/Quality Manager



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August 04, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON 12/7 B2JK FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 07/29/22 15:53.

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:	07/29/2022	Sampling Date:	07/28/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 111 @ 1' (H223372-01)

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	08/03/2022	ND	2.05	103	2.00	8.07	
Toluene*	<0.050	0.050	08/03/2022	ND	2.12	106	2.00	7.07	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.15	107	2.00	7.74	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.59	110	6.00	7.66	
Total BTEX	<0.300	0.300	08/03/2022	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	96.0	16.0	08/03/2022	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	08/03/2022	ND	198	98.9	200	13.2	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	194	97.0	200	8.27	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 94.0 % 43-149

Surrogate: 1-Chlorooctadecane 100 % 42.5-161

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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

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

Received:	07/29/2022	Sampling Date:	07/28/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 112 @ 1' (H223372-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2022	ND	2.05	103	2.00	8.07	
Toluene*	<0.050	0.050	08/03/2022	ND	2.12	106	2.00	7.07	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.15	107	2.00	7.74	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.59	110	6.00	7.66	
Total BTEX	<0.300	0.300	08/03/2022	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	64.0	16.0	08/03/2022	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	08/03/2022	ND	198	98.9	200	13.2	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	194	97.0	200	8.27	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 111 % 43-149

Surrogate: 1-Chlorooctadecane 119 % 42.5-161

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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:	07/29/2022	Sampling Date:	07/28/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 113 @ 1' (H223372-03)

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	08/03/2022	ND	2.05	103	2.00	8.07	
Toluene*	<0.050	0.050	08/03/2022	ND	2.12	106	2.00	7.07	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.15	107	2.00	7.74	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.59	110	6.00	7.66	
Total BTEX	<0.300	0.300	08/03/2022	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	80.0	16.0	08/03/2022	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	08/03/2022	ND	198	98.9	200	13.2	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	194	97.0	200	8.27	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 90.6 % 43-149

Surrogate: 1-Chlorooctadecane 94.9 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/29/2022	Sampling Date:	07/28/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 114 @ 3' (H223372-04)

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	08/03/2022	ND	2.05	103	2.00	8.07	
Toluene*	<0.050	0.050	08/03/2022	ND	2.12	106	2.00	7.07	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.15	107	2.00	7.74	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.59	110	6.00	7.66	
Total BTEX	<0.300	0.300	08/03/2022	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	80.0	16.0	08/03/2022	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	08/03/2022	ND	198	98.9	200	13.2	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	194	97.0	200	8.27	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 90.6 % 43-149

Surrogate: 1-Chlorooctadecane 95.0 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/29/2022	Sampling Date:	07/28/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 115 @ 3' (H223372-05)

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	08/03/2022	ND	2.05	103	2.00	8.07		
Toluene*	<0.050	0.050	08/03/2022	ND	2.12	106	2.00	7.07		
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.15	107	2.00	7.74		
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.59	110	6.00	7.66		
Total BTEX	<0.300	0.300	08/03/2022	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	32.0	16.0	08/03/2022	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	08/03/2022	ND	198	98.9	200	13.2		
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	194	97.0	200	8.27		
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND						

Surrogate: 1-Chlorooctane 101 % 43-149

Surrogate: 1-Chlorooctadecane 104 % 42.5-161

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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:	07/29/2022	Sampling Date:	07/28/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 116 @ 3' (H223372-06)

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	08/03/2022	ND	2.05	103	2.00	8.07		
Toluene*	<0.050	0.050	08/03/2022	ND	2.12	106	2.00	7.07		
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.15	107	2.00	7.74		
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.59	110	6.00	7.66		
Total BTEX	<0.300	0.300	08/03/2022	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	16.0	16.0	08/03/2022	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	08/03/2022	ND	198	98.9	200	13.2		
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	194	97.0	200	8.27		
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND						

Surrogate: 1-Chlorooctane 99.6 % 43-149

Surrogate: 1-Chlorooctadecane 102 % 42.5-161

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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:	07/29/2022	Sampling Date:	07/28/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 117 @ 1' (H223372-07)

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	08/03/2022	ND	2.05	103	2.00	8.07		
Toluene*	<0.050	0.050	08/03/2022	ND	2.12	106	2.00	7.07		
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.15	107	2.00	7.74		
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.59	110	6.00	7.66		
Total BTEX	<0.300	0.300	08/03/2022	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	<16.0	16.0	08/03/2022	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	08/03/2022	ND	198	98.9	200	13.2		
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	194	97.0	200	8.27		
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND						

Surrogate: 1-Chlorooctane 109 % 43-149

Surrogate: 1-Chlorooctadecane 110 % 42.5-161

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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:	07/29/2022	Sampling Date:	07/28/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 118 @ 1' (H223372-08)

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	08/03/2022	ND	2.05	103	2.00	8.07	
Toluene*	<0.050	0.050	08/03/2022	ND	2.12	106	2.00	7.07	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.15	107	2.00	7.74	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.59	110	6.00	7.66	
Total BTEX	<0.300	0.300	08/03/2022	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	128	16.0	08/03/2022	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	08/03/2022	ND	198	98.9	200	13.2	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	194	97.0	200	8.27	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 102 % 43-149

Surrogate: 1-Chlorooctadecane 104 % 42.5-161

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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:	07/29/2022	Sampling Date:	07/28/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 119 @ 1' (H223372-09)

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	08/03/2022	ND	1.91	95.5	2.00	0.248		
Toluene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.72		
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.00	99.9	2.00	2.06		
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.19	103	6.00	2.84		
Total BTEX	<0.300	0.300	08/03/2022	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	08/03/2022	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	08/03/2022	ND	198	98.9	200	13.2		
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	194	97.0	200	8.27		
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND						

Surrogate: 1-Chlorooctane 99.5 % 43-149

Surrogate: 1-Chlorooctadecane 98.9 % 42.5-161

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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:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 120 @ 1' (H223372-10)

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	08/03/2022	ND	1.91	95.5	2.00	0.248	
Toluene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.72	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.00	99.9	2.00	2.06	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.19	103	6.00	2.84	
Total BTEX	<0.300	0.300	08/03/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/03/2022	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	08/03/2022	ND	198	98.9	200	13.2	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	194	97.0	200	8.27	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 110 % 43-149

Surrogate: 1-Chlorooctadecane 111 % 42.5-161

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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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Celey D. Keene, Lab Director/Quality Manager



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

August 05, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON 12/7 B2JK FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 08/01/22 15:50.

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.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/01/2022	Sampling Date:	07/29/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 121 @ 4' (H223390-01)

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	08/04/2022	ND	2.15	107	2.00	6.79	
Toluene*	<0.050	0.050	08/04/2022	ND	2.19	110	2.00	6.19	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.21	110	2.00	6.61	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.76	113	6.00	7.20	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 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	08/04/2022	ND	448	112	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	08/04/2022	ND	219	110	200	8.06	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	223	111	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 96.4 % 43-149

Surrogate: 1-Chlorooctadecane 97.8 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/01/2022	Sampling Date:	07/29/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 122 @ 5' (H223390-02)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/04/2022	ND	2.15	107	2.00	6.79		
Toluene*	<0.050	0.050	08/04/2022	ND	2.19	110	2.00	6.19		
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.21	110	2.00	6.61		
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.76	113	6.00	7.20		
Total BTEX	<0.300	0.300	08/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/04/2022	ND	448	112	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	08/04/2022	ND	219	110	200	8.06		
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	223	111	200	10.1		
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND						

Surrogate: 1-Chlorooctane 93.9 % 43-149

Surrogate: 1-Chlorooctadecane 95.9 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/01/2022	Sampling Date:	07/29/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 123 @ 1' (H223390-03)

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	08/04/2022	ND	2.15	107	2.00	6.79	
Toluene*	<0.050	0.050	08/04/2022	ND	2.19	110	2.00	6.19	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.21	110	2.00	6.61	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.76	113	6.00	7.20	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 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	08/04/2022	ND	448	112	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	08/04/2022	ND	219	110	200	8.06	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	223	111	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 87.9 % 43-149

Surrogate: 1-Chlorooctadecane 89.0 % 42.5-161

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/01/2022	Sampling Date:	07/29/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 124 @ 1' (H223390-04)

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	08/04/2022	ND	2.15	107	2.00	6.79	
Toluene*	<0.050	0.050	08/04/2022	ND	2.19	110	2.00	6.19	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.21	110	2.00	6.61	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.76	113	6.00	7.20	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 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	08/04/2022	ND	448	112	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	08/04/2022	ND	219	110	200	8.06	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	223	111	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 91.3 % 43-149

Surrogate: 1-Chlorooctadecane 92.5 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/01/2022	Sampling Date:	07/29/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 125 @ 4' (H223390-05)

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	08/04/2022	ND	2.15	107	2.00	6.79	
Toluene*	<0.050	0.050	08/04/2022	ND	2.19	110	2.00	6.19	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.21	110	2.00	6.61	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.76	113	6.00	7.20	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/04/2022	ND	448	112	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	08/04/2022	ND	219	110	200	8.06	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	223	111	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 85.1 % 43-149

Surrogate: 1-Chlorooctadecane 86.4 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/01/2022	Sampling Date:	07/29/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 126 @ 1' (H223390-06)

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	08/04/2022	ND	2.15	107	2.00	6.79	
Toluene*	<0.050	0.050	08/04/2022	ND	2.19	110	2.00	6.19	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.21	110	2.00	6.61	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.76	113	6.00	7.20	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 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	08/04/2022	ND	448	112	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	08/04/2022	ND	219	110	200	8.06	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	223	111	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 43-149

Surrogate: 1-Chlorooctadecane 92.3 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/01/2022	Sampling Date:	07/29/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 127 @ 4' (H223390-07)

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	08/04/2022	ND	2.15	107	2.00	6.79	
Toluene*	<0.050	0.050	08/04/2022	ND	2.19	110	2.00	6.19	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.21	110	2.00	6.61	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.76	113	6.00	7.20	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 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	08/04/2022	ND	448	112	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	08/04/2022	ND	219	110	200	8.06	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	223	111	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 91.1 % 43-149

Surrogate: 1-Chlorooctadecane 90.7 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/01/2022	Sampling Date:	07/29/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 128 @ 4' (H223390-08)

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	08/04/2022	ND	1.75	87.6	2.00	15.9	
Toluene*	<0.050	0.050	08/04/2022	ND	1.78	89.2	2.00	17.1	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	1.78	89.1	2.00	17.2	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	5.43	90.4	6.00	17.4	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 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	16.0	16.0	08/04/2022	ND	448	112	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	08/04/2022	ND	219	110	200	8.06	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	223	111	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 87.4 % 43-149

Surrogate: 1-Chlorooctadecane 88.0 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/01/2022	Sampling Date:	07/29/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 129 @ 1' (H223390-09)

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	08/04/2022	ND	1.75	87.6	2.00	15.9	
Toluene*	<0.050	0.050	08/04/2022	ND	1.78	89.2	2.00	17.1	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	1.78	89.1	2.00	17.2	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	5.43	90.4	6.00	17.4	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 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	08/04/2022	ND	448	112	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	08/04/2022	ND	219	110	200	8.06	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	223	111	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 83.7 % 43-149

Surrogate: 1-Chlorooctadecane 84.0 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/01/2022	Sampling Date:	07/29/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 130 @ 1' (H223390-10)

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	08/04/2022	ND	1.75	87.6	2.00	15.9	
Toluene*	<0.050	0.050	08/04/2022	ND	1.78	89.2	2.00	17.1	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	1.78	89.1	2.00	17.2	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	5.43	90.4	6.00	17.4	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	08/04/2022	ND	448	112	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	08/04/2022	ND	219	110	200	8.06	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	223	111	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 92.0 % 43-149

Surrogate: 1-Chlorooctadecane 94.4 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

August 08, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON 12/7 B2JK FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 08/03/22 15:55.

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.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/03/2022	Sampling Date:	08/02/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: NW 6 A (H223472-01)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2022	ND	220	110	200	7.48	
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	229	115	200	5.68	
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	97.7 %	43-149							
Surrogate: 1-Chlorooctadecane	96.1 %	42.5-161							

Sample ID: SW 3 A (H223472-02)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2022	ND	220	110	200	7.48	
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	229	115	200	5.68	
EXT DRO >C28-C36	12.4	10.0	08/05/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	80.9 %	43-149							
Surrogate: 1-Chlorooctadecane	78.7 %	42.5-161							

Sample ID: FS 91 @ 3' (H223472-03)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/05/2022	ND	416	104	400	3.77	

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/03/2022	Sampling Date:	08/02/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: WW 9 (H223472-04)

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	08/04/2022	ND	2.04	102	2.00	7.70	
Toluene*	<0.050	0.050	08/04/2022	ND	2.13	107	2.00	7.71	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.16	108	2.00	7.82	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.66	111	6.00	8.23	
Total BTEX	<0.300	0.300	08/04/2022	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	368	16.0	08/05/2022	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	08/05/2022	ND	220	110	200	7.48	
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	229	115	200	5.68	
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND					

Surrogate: 1-Chlorooctane 78.4 % 43-149

Surrogate: 1-Chlorooctadecane 76.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/03/2022	Sampling Date:	08/02/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 131 @ 3' (H223472-05)

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	08/04/2022	ND	2.04	102	2.00	7.70	
Toluene*	<0.050	0.050	08/04/2022	ND	2.13	107	2.00	7.71	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.16	108	2.00	7.82	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.66	111	6.00	8.23	
Total BTEX	<0.300	0.300	08/04/2022	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	128	16.0	08/05/2022	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	08/05/2022	ND	220	110	200	7.48	
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	229	115	200	5.68	
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND					

Surrogate: 1-Chlorooctane 90.4 % 43-149

Surrogate: 1-Chlorooctadecane 92.8 % 42.5-161

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Analytical Results For:

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

Received:	08/03/2022	Sampling Date:	08/02/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 132 @ 6' (H223472-06)

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	08/05/2022	ND	2.04	102	2.00	7.70	
Toluene*	<0.050	0.050	08/05/2022	ND	2.13	107	2.00	7.71	
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.16	108	2.00	7.82	
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.66	111	6.00	8.23	
Total BTEX	<0.300	0.300	08/05/2022	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	576	16.0	08/05/2022	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	08/05/2022	ND	220	110	200	7.48	
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	229	115	200	5.68	
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND					

Surrogate: 1-Chlorooctane 101 % 43-149

Surrogate: 1-Chlorooctadecane 99.8 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/03/2022	Sampling Date:	08/02/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 133 @ 4' (H223472-07)

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	08/05/2022	ND	2.04	102	2.00	7.70	
Toluene*	<0.050	0.050	08/05/2022	ND	2.13	107	2.00	7.71	
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.16	108	2.00	7.82	
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.66	111	6.00	8.23	
Total BTEX	<0.300	0.300	08/05/2022	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	96.0	16.0	08/05/2022	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	08/05/2022	ND	215	107	200	3.69	
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	205	102	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND					

Surrogate: 1-Chlorooctane 80.4 % 43-149

Surrogate: 1-Chlorooctadecane 94.5 % 42.5-161

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Analytical Results For:

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

Received:	08/03/2022	Sampling Date:	08/02/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 134 @ 1' (H223472-08)

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	08/05/2022	ND	2.04	102	2.00	7.70	
Toluene*	<0.050	0.050	08/05/2022	ND	2.13	107	2.00	7.71	
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.16	108	2.00	7.82	
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.66	111	6.00	8.23	
Total BTEX	<0.300	0.300	08/05/2022	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	32.0	16.0	08/05/2022	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	08/05/2022	ND	215	107	200	3.69	
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	205	102	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND					

Surrogate: 1-Chlorooctane 85.6 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/03/2022	Sampling Date:	08/02/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 135 @ 1' (H223472-09)

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	08/05/2022	ND	2.04	102	2.00	7.70	
Toluene*	<0.050	0.050	08/05/2022	ND	2.13	107	2.00	7.71	
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.16	108	2.00	7.82	
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.66	111	6.00	8.23	
Total BTEX	<0.300	0.300	08/05/2022	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	144	16.0	08/05/2022	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	08/05/2022	ND	211	105	200	9.07	
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	218	109	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND					

Surrogate: 1-Chlorooctane 88.5 % 43-149

Surrogate: 1-Chlorooctadecane 87.1 % 42.5-161

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Analytical Results For:

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

Received:	08/03/2022	Sampling Date:	08/02/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 136 @ 2' (H223472-10)

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	08/05/2022	ND	2.04	102	2.00	7.70	
Toluene*	<0.050	0.050	08/05/2022	ND	2.13	107	2.00	7.71	
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.16	108	2.00	7.82	
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.66	111	6.00	8.23	
Total BTEX	<0.300	0.300	08/05/2022	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	192	16.0	08/05/2022	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	08/05/2022	ND	211	105	200	9.07	
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	218	109	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND					

Surrogate: 1-Chlorooctane 99.8 % 43-149

Surrogate: 1-Chlorooctadecane 98.6 % 42.5-161

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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.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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August 10, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON 12/7 B2JK FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 08/04/22 15:33.

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:	08/04/2022	Sampling Date:	08/04/2022
Reported:	08/10/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: WW 10 (H223506-01)

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	08/09/2022	ND	1.82	91.2	2.00	2.86	
Toluene*	<0.050	0.050	08/09/2022	ND	1.96	98.0	2.00	0.187	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	1.89	94.6	2.00	0.232	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	5.86	97.6	6.00	0.180	
Total BTEX	<0.300	0.300	08/09/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	08/09/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	198	99.2	200	0.571	
DRO >C10-C28*	<10.0	10.0	08/09/2022	ND	212	106	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					

Surrogate: 1-Chlorooctane 88.9 % 43-149

Surrogate: 1-Chlorooctadecane 92.9 % 42.5-161

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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:	08/04/2022	Sampling Date:	08/04/2022
Reported:	08/10/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 137 @ 3' (H223506-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2022	ND	1.82	91.2	2.00	2.86	
Toluene*	<0.050	0.050	08/09/2022	ND	1.96	98.0	2.00	0.187	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	1.89	94.6	2.00	0.232	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	5.86	97.6	6.00	0.180	
Total BTEX	<0.300	0.300	08/09/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/09/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	198	99.2	200	0.571	
DRO >C10-C28*	<10.0	10.0	08/09/2022	ND	212	106	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					

Surrogate: 1-Chlorooctane 86.3 % 43-149

Surrogate: 1-Chlorooctadecane 90.6 % 42.5-161

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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:	08/04/2022	Sampling Date:	08/04/2022
Reported:	08/10/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 138 @ 1' (H223506-03)

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	08/09/2022	ND	1.82	91.2	2.00	2.86	
Toluene*	<0.050	0.050	08/09/2022	ND	1.96	98.0	2.00	0.187	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	1.89	94.6	2.00	0.232	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	5.86	97.6	6.00	0.180	
Total BTEX	<0.300	0.300	08/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/09/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	198	99.2	200	0.571	
DRO >C10-C28*	<10.0	10.0	08/09/2022	ND	212	106	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					

Surrogate: 1-Chlorooctane 93.5 % 43-149

Surrogate: 1-Chlorooctadecane 98.2 % 42.5-161

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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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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. #:											
Address: 2617 W Marland		Company: Mewbourne											
City: Hobbs State: NM Zip: 88240		Attn: Robbie Runnels											
Phone #: (575) 264-9884 Fax #:		Address: 4801 Business Pl, Hobbs											
Project #: 16072 Project Owner: Robbie Runnels		City: Hobbs											
Project Name: Zircon 12/7 B2JK Fed Can 1H		State: NM Zip: 88240											
Project Location: Mewbourne Oil Company		Phone #:											
Sampler Name: Eric Mojica		Fax #:											

FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		Chloride	TPH (8015M)	BTEX (8021B)
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE			
	H223506																
	1	WW10	C	1			✓				✓		8-4-22		✓	✓	✓
	2	FS 137e3'	C	1			✓				✓				✓	✓	✓
	3	FS 138e1'	C	1			✓				✓				✓	✓	✓

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Relinquished By: Eric Mojica	Date: 8/4/22	Received By: S. Rodriguez	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1:53		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		Please email results and copy of CoC to pm@etechenv.com.	

Delivered By: (Circle One) <u>S. Rodriguez</u>	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other: <u>5.02 #113</u>	Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	(Initials) <u>SJR</u>



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

August 15, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON 12/7 B2JK FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 08/10/22 16:10.

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

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:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/15/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: NW 8 (H223615-01)

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	08/14/2022	ND	2.03	102	2.00	6.27	
Toluene*	<0.050	0.050	08/14/2022	ND	2.06	103	2.00	6.49	
Ethylbenzene*	<0.050	0.050	08/14/2022	ND	2.07	103	2.00	6.75	
Total Xylenes*	<0.150	0.150	08/14/2022	ND	6.32	105	6.00	5.47	
Total BTEX	<0.300	0.300	08/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/15/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	201	100	200	2.06	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	225	112	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 43-149

Surrogate: 1-Chlorooctadecane 103 % 42.5-161

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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:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/15/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: EW 10 (H223615-02)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2022	ND	2.03	102	2.00	6.27	
Toluene*	<0.050	0.050	08/14/2022	ND	2.06	103	2.00	6.49	
Ethylbenzene*	<0.050	0.050	08/14/2022	ND	2.07	103	2.00	6.75	
Total Xylenes*	<0.150	0.150	08/14/2022	ND	6.32	105	6.00	5.47	
Total BTEX	<0.300	0.300	08/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/15/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	201	100	200	2.06	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	225	112	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 101 % 43-149

Surrogate: 1-Chlorooctadecane 108 % 42.5-161

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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:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/15/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: EW 11 (H223615-03)

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	08/14/2022	ND	2.03	102	2.00	6.27	
Toluene*	<0.050	0.050	08/14/2022	ND	2.06	103	2.00	6.49	
Ethylbenzene*	<0.050	0.050	08/14/2022	ND	2.07	103	2.00	6.75	
Total Xylenes*	<0.150	0.150	08/14/2022	ND	6.32	105	6.00	5.47	
Total BTEX	<0.300	0.300	08/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/15/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	201	100	200	2.06	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	225	112	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 43-149

Surrogate: 1-Chlorooctadecane 103 % 42.5-161

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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:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/15/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 139 @ 2' (H223615-04)

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	08/14/2022	ND	2.03	102	2.00	6.27		
Toluene*	<0.050	0.050	08/14/2022	ND	2.06	103	2.00	6.49		
Ethylbenzene*	<0.050	0.050	08/14/2022	ND	2.07	103	2.00	6.75		
Total Xylenes*	<0.150	0.150	08/14/2022	ND	6.32	105	6.00	5.47		
Total BTEX	<0.300	0.300	08/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	08/15/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/11/2022	ND	220	110	200	2.75		
DRO >C10-C28*	<10.0	10.0	08/11/2022	ND	227	114	200	3.99		
EXT DRO >C28-C36	<10.0	10.0	08/11/2022	ND						

Surrogate: 1-Chlorooctane 74.4 % 43-149

Surrogate: 1-Chlorooctadecane 73.4 % 42.5-161

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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:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/15/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 140 @ 2' (H223615-05)

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	08/14/2022	ND	2.03	102	2.00	6.27		
Toluene*	<0.050	0.050	08/14/2022	ND	2.06	103	2.00	6.49		
Ethylbenzene*	<0.050	0.050	08/14/2022	ND	2.07	103	2.00	6.75		
Total Xylenes*	<0.150	0.150	08/14/2022	ND	6.32	105	6.00	5.47		
Total BTEX	<0.300	0.300	08/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/15/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	216	108	200	2.87		
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	196	97.8	200	0.536		
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND						

Surrogate: 1-Chlorooctane 76.8 % 43-149

Surrogate: 1-Chlorooctadecane 94.8 % 42.5-161

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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:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/15/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 141 @ 4' (H223615-06)

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	08/14/2022	ND	2.03	102	2.00	6.27	
Toluene*	<0.050	0.050	08/14/2022	ND	2.06	103	2.00	6.49	
Ethylbenzene*	<0.050	0.050	08/14/2022	ND	2.07	103	2.00	6.75	
Total Xylenes*	<0.150	0.150	08/14/2022	ND	6.32	105	6.00	5.47	
Total BTEX	<0.300	0.300	08/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/15/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	216	108	200	2.87	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	196	97.8	200	0.536	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 82.8 % 43-149

Surrogate: 1-Chlorooctadecane 97.3 % 42.5-161

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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:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/15/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 142 @ 5' (H223615-07)

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	08/14/2022	ND	2.03	102	2.00	6.27	
Toluene*	<0.050	0.050	08/14/2022	ND	2.06	103	2.00	6.49	
Ethylbenzene*	<0.050	0.050	08/14/2022	ND	2.07	103	2.00	6.75	
Total Xylenes*	<0.150	0.150	08/14/2022	ND	6.32	105	6.00	5.47	
Total BTEX	<0.300	0.300	08/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/15/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	216	108	200	2.87	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	196	97.8	200	0.536	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 77.0 % 43-149

Surrogate: 1-Chlorooctadecane 90.7 % 42.5-161

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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:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/15/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 143 @ 2' (H223615-08)

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	08/14/2022	ND	2.03	102	2.00	6.27	
Toluene*	<0.050	0.050	08/14/2022	ND	2.06	103	2.00	6.49	
Ethylbenzene*	<0.050	0.050	08/14/2022	ND	2.07	103	2.00	6.75	
Total Xylenes*	<0.150	0.150	08/14/2022	ND	6.32	105	6.00	5.47	
Total BTEX	<0.300	0.300	08/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/15/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	216	108	200	2.87	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	196	97.8	200	0.536	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 74.1 % 43-149

Surrogate: 1-Chlorooctadecane 86.5 % 42.5-161

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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:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/15/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 144 @ 5' (H223615-09)

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	08/14/2022	ND	2.03	102	2.00	6.27	
Toluene*	<0.050	0.050	08/14/2022	ND	2.06	103	2.00	6.49	
Ethylbenzene*	<0.050	0.050	08/14/2022	ND	2.07	103	2.00	6.75	
Total Xylenes*	<0.150	0.150	08/14/2022	ND	6.32	105	6.00	5.47	
Total BTEX	<0.300	0.300	08/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/15/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	216	108	200	2.87	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	196	97.8	200	0.536	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 78.2 % 43-149

Surrogate: 1-Chlorooctadecane 92.1 % 42.5-161

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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:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/15/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	16072	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 145 @ 3' (H223615-10)

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	08/14/2022	ND	2.03	102	2.00	6.27	
Toluene*	<0.050	0.050	08/14/2022	ND	2.06	103	2.00	6.49	
Ethylbenzene*	<0.050	0.050	08/14/2022	ND	2.07	103	2.00	6.75	
Total Xylenes*	<0.150	0.150	08/14/2022	ND	6.32	105	6.00	5.47	
Total BTEX	<0.300	0.300	08/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/15/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	214	107	200	1.67	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	208	104	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 79.0 % 43-149

Surrogate: 1-Chlorooctadecane 82.4 % 42.5-161

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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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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. #:															
Address: 2617 W Marland		Company: Mewbourne															
City: Hobbs		State: NM		Zip: 88240		Attn: Robbie Runnels											
Phone #: (575) 264-9884		Fax #:		Address: 4801 Business Park Blvd		City: Hobbs											
Project #: 16072		Project Owner: Robbie Runnels		State: NM		Zip: 88240											
Project Name: Zircen 127B25K Fed Com IH		Phone #:															
Project Location: Mewbourne Oil Company		Fax #:															
Sampler Name: Eric Mojica																	

FOR LAB USE ONLY		Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		Chloride	TPH (8015M)	BTEX (8021B)											
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE /COOL:	OTHER :				DATE	TIME									
1		H223615	NW 8	C	1			✓				✓		8-10-22		✓	✓	✓										
2			EW 10	C	1			✓				✓				✓	✓	✓										
3			EW 11	C	1			✓				✓				✓	✓	✓										
4			FS 139e2'	C	1			✓				✓				✓	✓	✓										
5			FS 140e2'	C	1			✓				✓				✓	✓	✓										
6			FS 141e4'	C	1			✓				✓				✓	✓	✓										
7			FS 142e5'	C	1			✓				✓				✓	✓	✓										
8			FS 143e2'	C	1			✓				✓				✓	✓	✓										
9			FS 144e5'	C	1			✓				✓				✓	✓	✓										
10			FS 145e3'	C	1			✓				✓				✓	✓	✓										

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Relinquished By: <i>Eric Mojica</i>	Date: 8-10-22	Received By: <i>Jodi Hanson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 16:10		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		Please email results and copy of CoC to pm@etechenv.com.	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	11:00 # 113	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: <i>[Signature]</i>	



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

August 18, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON 12/7 B2JK FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 08/12/22 15:07.

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, flowing "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/12/2022	Sampling Date:	08/12/2022
Reported:	08/18/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: NW 9 (H223696-01)

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	08/16/2022	ND	2.07	103	2.00	0.546	
Toluene*	<0.050	0.050	08/16/2022	ND	2.07	103	2.00	1.30	
Ethylbenzene*	<0.050	0.050	08/16/2022	ND	1.99	99.7	2.00	0.679	
Total Xylenes*	<0.150	0.150	08/16/2022	ND	6.18	103	6.00	0.557	
Total BTEX	<0.300	0.300	08/16/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/16/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	214	107	200	0.783	
DRO >C10-C28*	12.4	10.0	08/17/2022	ND	245	122	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 82.5 % 43-149

Surrogate: 1-Chlorooctadecane 97.8 % 42.5-161

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Analytical Results For:

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

Received:	08/12/2022	Sampling Date:	08/11/2022
Reported:	08/18/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: SW 4 (H223696-02)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2022	ND	2.07	103	2.00	0.546	
Toluene*	<0.050	0.050	08/16/2022	ND	2.07	103	2.00	1.30	
Ethylbenzene*	<0.050	0.050	08/16/2022	ND	1.99	99.7	2.00	0.679	
Total Xylenes*	<0.150	0.150	08/16/2022	ND	6.18	103	6.00	0.557	
Total BTEX	<0.300	0.300	08/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/16/2022	ND	432	108	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	08/16/2022	ND	202	101	200	10.5	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	224	112	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 85.4 % 43-149

Surrogate: 1-Chlorooctadecane 91.6 % 42.5-161

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Analytical Results For:

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

Received:	08/12/2022	Sampling Date:	08/11/2022
Reported:	08/18/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: SW 5 (H223696-03)

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	08/16/2022	ND	2.07	103	2.00	0.546	
Toluene*	<0.050	0.050	08/16/2022	ND	2.07	103	2.00	1.30	
Ethylbenzene*	<0.050	0.050	08/16/2022	ND	1.99	99.7	2.00	0.679	
Total Xylenes*	<0.150	0.150	08/16/2022	ND	6.18	103	6.00	0.557	
Total BTEX	<0.300	0.300	08/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/16/2022	ND	432	108	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	08/16/2022	ND	202	101	200	10.5	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	224	112	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 100 % 43-149

Surrogate: 1-Chlorooctadecane 106 % 42.5-161

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Analytical Results For:

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

Received:	08/12/2022	Sampling Date:	08/11/2022
Reported:	08/18/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: WW 11 (H223696-04)

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	08/16/2022	ND	2.07	103	2.00	0.546	
Toluene*	<0.050	0.050	08/16/2022	ND	2.07	103	2.00	1.30	
Ethylbenzene*	<0.050	0.050	08/16/2022	ND	1.99	99.7	2.00	0.679	
Total Xylenes*	<0.150	0.150	08/16/2022	ND	6.18	103	6.00	0.557	
Total BTEX	<0.300	0.300	08/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/16/2022	ND	432	108	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	08/16/2022	ND	202	101	200	10.5	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	224	112	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 102 % 43-149

Surrogate: 1-Chlorooctadecane 108 % 42.5-161

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
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Received:	08/12/2022	Sampling Date:	08/12/2022
Reported:	08/18/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: WW 12 (H223696-05)

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	08/16/2022	ND	2.07	103	2.00	0.546	
Toluene*	<0.050	0.050	08/16/2022	ND	2.07	103	2.00	1.30	
Ethylbenzene*	<0.050	0.050	08/16/2022	ND	1.99	99.7	2.00	0.679	
Total Xylenes*	<0.150	0.150	08/16/2022	ND	6.18	103	6.00	0.557	
Total BTEX	<0.300	0.300	08/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/16/2022	ND	432	108	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	08/16/2022	ND	202	101	200	10.5	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	224	112	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 101 % 43-149

Surrogate: 1-Chlorooctadecane 108 % 42.5-161

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Analytical Results For:

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 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
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Received:	08/12/2022	Sampling Date:	08/11/2022
Reported:	08/18/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 146 @ 4.5' (H223696-06)

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	08/16/2022	ND	2.07	103	2.00	0.546	
Toluene*	<0.050	0.050	08/16/2022	ND	2.07	103	2.00	1.30	
Ethylbenzene*	<0.050	0.050	08/16/2022	ND	1.99	99.7	2.00	0.679	
Total Xylenes*	<0.150	0.150	08/16/2022	ND	6.18	103	6.00	0.557	
Total BTEX	<0.300	0.300	08/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/16/2022	ND	432	108	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	08/16/2022	ND	202	101	200	10.5	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	224	112	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 95.8 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

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Analytical Results For:

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

Received:	08/12/2022	Sampling Date:	08/11/2022
Reported:	08/18/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 147 @ 5' (H223696-07)

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	08/16/2022	ND	2.07	103	2.00	0.546	
Toluene*	<0.050	0.050	08/16/2022	ND	2.07	103	2.00	1.30	
Ethylbenzene*	<0.050	0.050	08/16/2022	ND	1.99	99.7	2.00	0.679	
Total Xylenes*	<0.150	0.150	08/16/2022	ND	6.18	103	6.00	0.557	
Total BTEX	<0.300	0.300	08/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/16/2022	ND	432	108	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	08/16/2022	ND	202	101	200	10.5	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	224	112	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 94.1 % 43-149

Surrogate: 1-Chlorooctadecane 98.4 % 42.5-161

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Analytical Results For:

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

Received:	08/12/2022	Sampling Date:	08/11/2022
Reported:	08/18/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 148 @ 2' (H223696-08)

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	08/16/2022	ND	2.05	103	2.00	3.70	
Toluene*	<0.050	0.050	08/16/2022	ND	2.00	99.8	2.00	3.76	
Ethylbenzene*	<0.050	0.050	08/16/2022	ND	1.94	96.8	2.00	4.45	
Total Xylenes*	<0.150	0.150	08/16/2022	ND	5.94	99.0	6.00	4.80	
Total BTEX	<0.300	0.300	08/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	08/16/2022	ND	432	108	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	08/16/2022	ND	202	101	200	10.5	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	224	112	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 93.8 % 43-149

Surrogate: 1-Chlorooctadecane 97.8 % 42.5-161

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Analytical Results For:

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

Received:	08/12/2022	Sampling Date:	08/12/2022
Reported:	08/18/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 149 @ 3' (H223696-09)

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	08/16/2022	ND	2.05	103	2.00	3.70	
Toluene*	<0.050	0.050	08/16/2022	ND	2.00	99.8	2.00	3.76	
Ethylbenzene*	<0.050	0.050	08/16/2022	ND	1.94	96.8	2.00	4.45	
Total Xylenes*	<0.150	0.150	08/16/2022	ND	5.94	99.0	6.00	4.80	
Total BTEX	<0.300	0.300	08/16/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/16/2022	ND	432	108	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	08/16/2022	ND	202	101	200	10.5	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	224	112	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 92.0 % 43-149

Surrogate: 1-Chlorooctadecane 96.0 % 42.5-161

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/12/2022	Sampling Date:	08/12/2022
Reported:	08/18/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 150 @ 3.5' (H223696-10)

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	08/16/2022	ND	2.05	103	2.00	3.70	
Toluene*	<0.050	0.050	08/16/2022	ND	2.00	99.8	2.00	3.76	
Ethylbenzene*	<0.050	0.050	08/16/2022	ND	1.94	96.8	2.00	4.45	
Total Xylenes*	<0.150	0.150	08/16/2022	ND	5.94	99.0	6.00	4.80	
Total BTEX	<0.300	0.300	08/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/16/2022	ND	432	108	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	08/16/2022	ND	202	101	200	10.5	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	224	112	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 94.9 % 43-149

Surrogate: 1-Chlorooctadecane 97.7 % 42.5-161

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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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

August 19, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON 12/7 B2JK FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 08/16/22 16:03.

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:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/19/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: EW 12 (H223747-01)

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	08/18/2022	ND	2.08	104	2.00	10.2	
Toluene*	<0.050	0.050	08/18/2022	ND	2.01	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.96	98.1	2.00	9.80	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.05	101	6.00	8.90	
Total BTEX	<0.300	0.300	08/18/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/18/2022	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	08/17/2022	ND	201	101	200	3.39	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	221	110	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 92.2 % 43-149

Surrogate: 1-Chlorooctadecane 97.3 % 42.5-161

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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:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/19/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: WW 13 (H223747-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/18/2022	ND	2.08	104	2.00	10.2	
Toluene*	<0.050	0.050	08/18/2022	ND	2.01	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.96	98.1	2.00	9.80	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.05	101	6.00	8.90	
Total BTEX	<0.300	0.300	08/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	08/18/2022	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	08/17/2022	ND	201	101	200	3.39	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	221	110	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 93.0 % 43-149

Surrogate: 1-Chlorooctadecane 98.8 % 42.5-161

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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:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/19/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: SW 6 (H223747-03)

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	08/18/2022	ND	2.08	104	2.00	10.2	
Toluene*	<0.050	0.050	08/18/2022	ND	2.01	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.96	98.1	2.00	9.80	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.05	101	6.00	8.90	
Total BTEX	<0.300	0.300	08/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/18/2022	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	08/17/2022	ND	201	101	200	3.39	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	221	110	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 97.2 % 43-149

Surrogate: 1-Chlorooctadecane 103 % 42.5-161

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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:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/19/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 151 @ 1' (H223747-04)

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	08/18/2022	ND	2.08	104	2.00	10.2	
Toluene*	<0.050	0.050	08/18/2022	ND	2.01	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.96	98.1	2.00	9.80	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.05	101	6.00	8.90	
Total BTEX	<0.300	0.300	08/18/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/18/2022	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	08/17/2022	ND	201	101	200	3.39	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	221	110	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 94.6 % 43-149

Surrogate: 1-Chlorooctadecane 102 % 42.5-161

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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:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/19/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 152 @ 2' (H223747-05)

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	08/18/2022	ND	2.08	104	2.00	10.2	
Toluene*	<0.050	0.050	08/18/2022	ND	2.01	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.96	98.1	2.00	9.80	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.05	101	6.00	8.90	
Total BTEX	<0.300	0.300	08/18/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/18/2022	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	08/17/2022	ND	201	101	200	3.39	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	221	110	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 88.4 % 43-149

Surrogate: 1-Chlorooctadecane 92.1 % 42.5-161

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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:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/19/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 154 @ 1' (H223747-06)

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	08/18/2022	ND	2.08	104	2.00	10.2	
Toluene*	<0.050	0.050	08/18/2022	ND	2.01	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.96	98.1	2.00	9.80	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.05	101	6.00	8.90	
Total BTEX	<0.300	0.300	08/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	08/18/2022	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	08/17/2022	ND	201	101	200	3.39	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	221	110	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 92.3 % 43-149

Surrogate: 1-Chlorooctadecane 96.5 % 42.5-161

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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:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/19/2022	Sampling Type:	Soil
Project Name:	ZIRCON 12/7 B2JK FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: FS 155 @ 4.5' (H223747-07)

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	08/18/2022	ND	2.08	104	2.00	10.2	
Toluene*	<0.050	0.050	08/18/2022	ND	2.01	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.96	98.1	2.00	9.80	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.05	101	6.00	8.90	
Total BTEX	<0.300	0.300	08/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/18/2022	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	08/17/2022	ND	201	101	200	3.39	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	221	110	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 76.9 % 43-149

Surrogate: 1-Chlorooctadecane 81.8 % 42.5-161

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

Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Appendix E

Regulatory Correspondence

From: [Hamlet, Robert, EMNRD](#)
To: [Lance Crenshaw](#)
Cc: [Nobui, Jennifer, EMNRD](#); [Ben Arguijo](#); [Connor Walker](#); [Robbie Runnels](#); [Harimon, Jocelyn, EMNRD](#); [Bratcher, Mike, EMNRD](#); [Matthew A. Grieco](#)
Subject: (Variance Approval) NMOCD Incident napp2215352060, request for alternative sampling plan
Date: Friday, July 8, 2022 12:11:14 PM

Lance,

A variance is approved for collecting 5-point composite samples to represent each 400 square foot area. Due to the shallow depth of the impact area, 50 linear feet for sidewall sample collection is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Regards,

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Lance Crenshaw <lance@etechnv.com>
Sent: Friday, July 8, 2022 10:44 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Cc: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Ben Arguijo <bena@etechnv.com>; Connor Walker <cwalker@mewbourne.com>; Robbie Runnels <rrunnels@mewbourne.com>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Matthew A. Grieco <matthewg@etechnv.com>
Subject: [EXTERNAL] NMOCD Incident napp2215352060, request for alternative sampling plan

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Dear NMOCD Environmental Bureau,

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, would like to request permission to implement an alternative sampling plan for the release known as the Zircon 12-7 B2JK SWD Line in Eddy County (NMOCD Incident napp2215352060).

Please see attached an Alternative Sampling Plan Site Assessment and Characterization Report for the aforementioned release. Based on the size of the affected area (approximately 54,000 square

feet) and the nature of the release, Etech proposes to collect composite soil samples every 50 linear feet from the excavation sidewalls and every 400 square feet from the base of the excavated area, for an approximate total of 148 floor samples. The composite soil samples will include wet and/or visibly stained areas, from which additional discrete samples will also be collected, as necessary.

Etech is currently excavating this release. If this report needs to be uploaded to the portal, please inform me at your earliest convenience.

If you have any questions or need any additional information, please do not hesitate to contact me by phone or email.

Thank you for your time and consideration.

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

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To: ben@etechnv.com

Message Score: 20

High (60): **Pass**

From:

My Spam Blocking Level: High

Medium (75): **Pass**

robert.hamlet@state.nm.us

Low (90): **Pass**

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From: [Lance Crenshaw](#)
To: [Enviro, OCD, EMNRD](#)
Cc: [Ben Arguijo](#); [Connor Walker](#); [Robbie Runnels](#)
Subject: Confirmation Sampling notification: napp2215352060
Date: Monday, July 11, 2022 2:37:54 PM

Good afternoon,

This email serves as notice that Etech intends to collect excavation confirmation soil samples from the following locations/reportable release sites:

Mewbourne Oil Co – Zircon 12-7 B2JK SWD Line– napp2215352060

If you have any questions or need any additional information, please contact Lance Crenshaw by phone (575-631-2532) or email (lance@etechenv.com)

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

From: [Hamlet, Robert, EMNRD](#)
To: [Lance Crenshaw](#)
Cc: [Connor Walker](#); [Ben Arguijo](#); [Joel Lowry](#); [Bratcher, Mike, EMNRD](#); [Nobui, Jennifer, EMNRD](#); [Harimon, Jocelyn, EMNRD](#)
Subject: (Extension Approval) NAPP2215352060 ZIRCON 12-7 B2JK FED COM #1H SWD LINE
Date: Monday, August 15, 2022 4:57:39 PM

RE: Incident #**NAPP2215352060**

Lance,

Your request for an extension to **September 20th, 2022** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Lance Crenshaw <lance@etechenv.com>
Sent: Monday, August 15, 2022 1:14 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Cc: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Connor Walker <cwalker@mewbourne.com>; Ben Arguijo <bena@etechenv.com>; Joel Lowry <joel@etechenv.com>
Subject: [EXTERNAL] Extension request for nAPP2215352060

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Dear NMOCD Environmental Bureau,

Mewbourne Oil Company (Mewbourne) contracted Etech Environmental & Safety Solutions, Inc. (Etech), on May 27, 2021, to assume remediation activities for the release known as the Zircon 12-7 B2JK SWD Line (NMOCD Incident #nAPP2215352060) located in Eddy County. Pursuant to NMOCD regulations, a work plan or closure report was due for the release on August 15, 2022.

Etech has been working diligently on this remediation, as the majority of the impacts have been excavated; this is a work-in-progress, and we forecast being finished with this project within the next month.

In consideration of this, Etech, on behalf of Mewbourne, would like to request an extension until September 20, 2022, in order to allow us time to fully complete the remediation and advance the site to an NMOCD-approved closure.

If you have any questions or need any additional information, please do not hesitate to contact me by phone or email.

Thank you for your time and consideration.

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

Total Control Panel

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To: ben@etechenv.com

Message Score: 57

High (60): **Pass**

From:

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robert.hamlet@state.nm.us

Low (90): **Pass**

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From: [Hamlet, Robert, EMNRD](#)
To: [Lance Crenshaw](#)
Cc: [Connor Walker](#); [Ben Arguijo](#); [Bratcher, Michael, EMNRD](#); [Nobui, Jennifer, EMNRD](#); [Harimon, Jocelyn, EMNRD](#)
Subject: (Extension Approval) nAPP2215352060
Date: Monday, September 19, 2022 12:29:18 PM

RE: Incident #**NAPP2215352060**

Lance,

Your request for an extension to **October 5th, 2022** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Lance Crenshaw <lance@etechenv.com>
Sent: Friday, September 16, 2022 9:51 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Cc: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Connor Walker <cwalker@mewbourne.com>; Ben Arguijo <bena@etechenv.com>
Subject: [EXTERNAL] Extension Request for nAPP2215352060

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Dear NMOCD Environmental Bureau,

Mewbourne Oil Company (Mewbourne) contracted Etech Environmental & Safety Solutions, Inc. (Etech), on June 26, 2021, to assume remediation activities for the release known as the Zircon 12-7 B2JK GF SWD Line (NMOCD Incident #nAPP2215352060) located in Lea County. Pursuant to NMOCD regulations, a work plan or closure report was due for the release on September 20, 2022.

This project has been completed, Etech just needs to complete the closure report.

In consideration of this, Etech, on behalf of Mewbourne, would like to request an extension until

October 5, 2022, in order to allow us time to fully complete the closure report and attach supporting documents.

If you have any questions or need any additional information, please do not hesitate to contact me by phone or email.

Thank you for your time and consideration.

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

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To: ben@etechnv.com

Message Score: 57

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From:

My Spam Blocking Level: High

Medium (75): **Pass**

robert.hamlet@emnrd.nm.gov

Low (90): **Pass**

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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 152337

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 152337
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	1/18/2023