**Received by OCD: 10/20/2022 12:01:10 PM** Form C-141 State of New Mexico

Oil Conservation Division

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

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

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

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

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

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regulations all operators are public health or the environm failed to adequately investig addition, OCD acceptance of and/or regulations. Printed Name: Connor V Signature:	Avalh	ifications and perform co OCD does not relieve the eat to groundwater, surfa	prrective actions for rele operator of liability sho ce water, human health iance with any other fec	ases which may endanger ould their operations have or the environment. In
OCD Only Received by:Jocelyn	Harimon	Date: <u>10</u>	/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.

	•, , , , , , , , , , , , , , , , , , ,
<b><u>Closure Report Attachment Checklist</u></b> : Each of the following to	tems must be included in the closure report.
$\checkmark$ A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
☑ Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
Printed Name: Connor Walker	Title: Sr. Engineer
Signature: _ Como Avalh	Date:10/20/2022
email: cwalker@mewbourne.com	Telephone: (806)202-5281
OCD Only	
Received by: Jocelyn Hairmon	Date: 10/20/2022
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by:	Date: 01/18/2023
Printed Name: Jocelyn Harimon	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

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Environmental & Safety Solutions, Inc.

Midland • San Antonio • Lubbock • Hobbs • Lafayette

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# **1.0 PROJECT INFORMATION**

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Zircon 12-7 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	7 B2JK Fed Com #1H SWD I	Line Site Type:	Pipeline								
Date Release Discovered:5/18/2022API # (if applicable):N/A											
Unit Letter Section Township Range County											
"F"	12 19S	29E	Eddy								
Surface Owner: X Sta		Private (Nam	^								
·	1 (4041 0 4)										
Crude Oil	Volume Released (bbls)		Volume Recovered (bbls)								
X Produced Water	Volume Released (bbls)	185	Volume Recovered (bbls) 120								
	Is the concentration of total (TDS) in the produced water		X Yes No N/A								
Condensate	Volume Released (bbls)		Volume Recovered (bbls)								
Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)								
Other (describe)	Volume/Weight Released		Volume/Weight Recovered								
Cause of Release: A poly flowline develo	oped a split and failed.										
	Iı	nitial Response									
<ul> <li>X The source of the release has been stopped.</li> <li>X The impacted area has been secured to protect human health and the environment.</li> <li>X Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices</li> </ul>											
	l recoverable materials have be		-								

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 halfmile 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?	Yes X No	,
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X No	1
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark?	Yes X No	I
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	Yes X No	1
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes X No	1
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No	
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No	•
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No	,
Are the lateral extents of the release overlying a subsurface mine?	Yes X No	1
Are the lateral extents of the release overlying an unstable area such as karst geology?	X Yes No	•
Are the lateral extents of the release within a 100-year floodplain?	Yes X No	
Did the release impact areas not on an exploration, development, production or storage site?	X Yes No	1

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*‡
	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	600	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	100	100
125'	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 areas 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

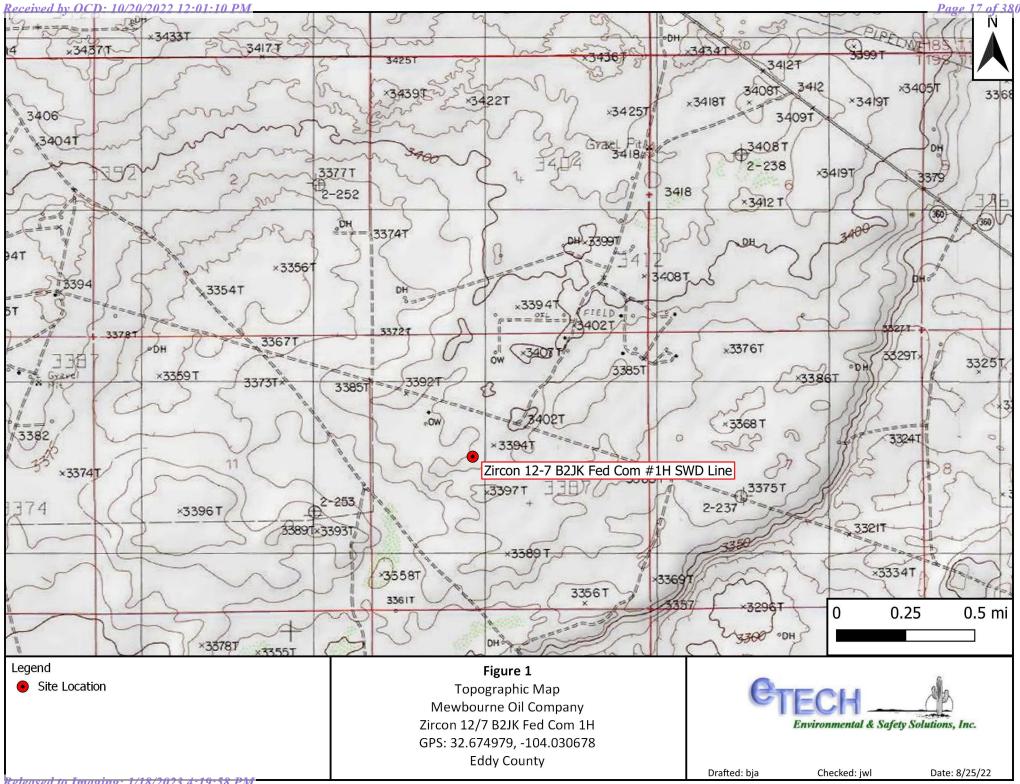
*Oil Conservation Division, District 2* 811 S. First Street Artesia, NM 88210

#### Hobbs Field Office

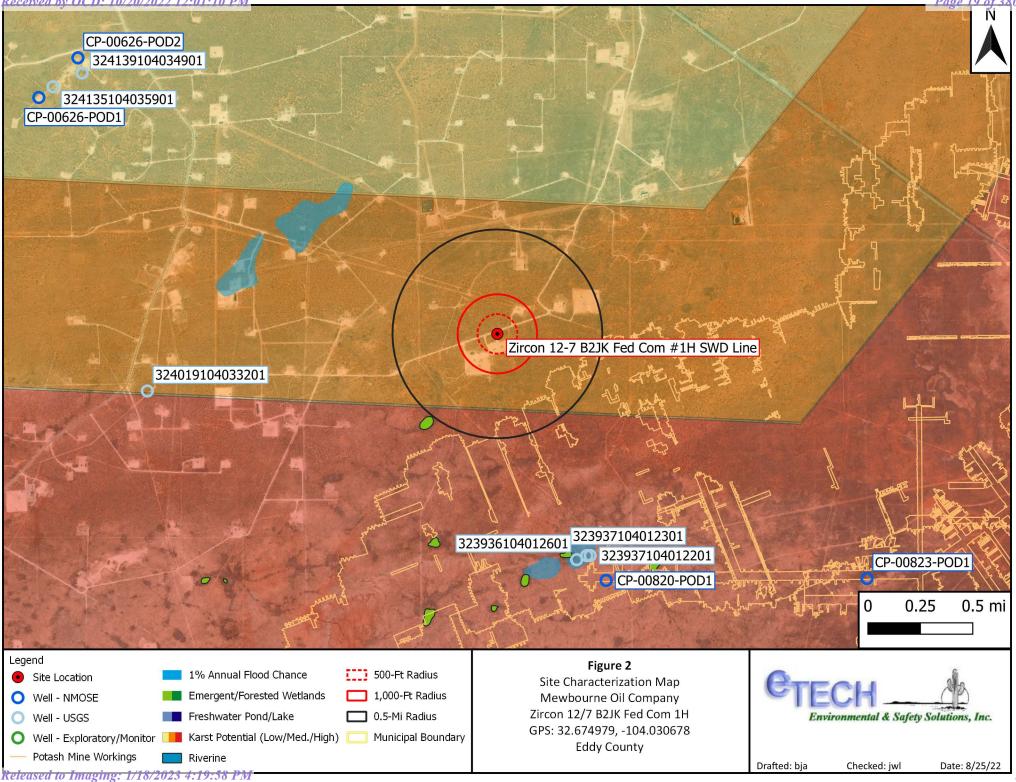
New Mexico State Land Office 2827 North Dal Paso Street Suite 117 Hobbs, NM 88240

(Electronic Submission)

# Figure 1 Topographic Map

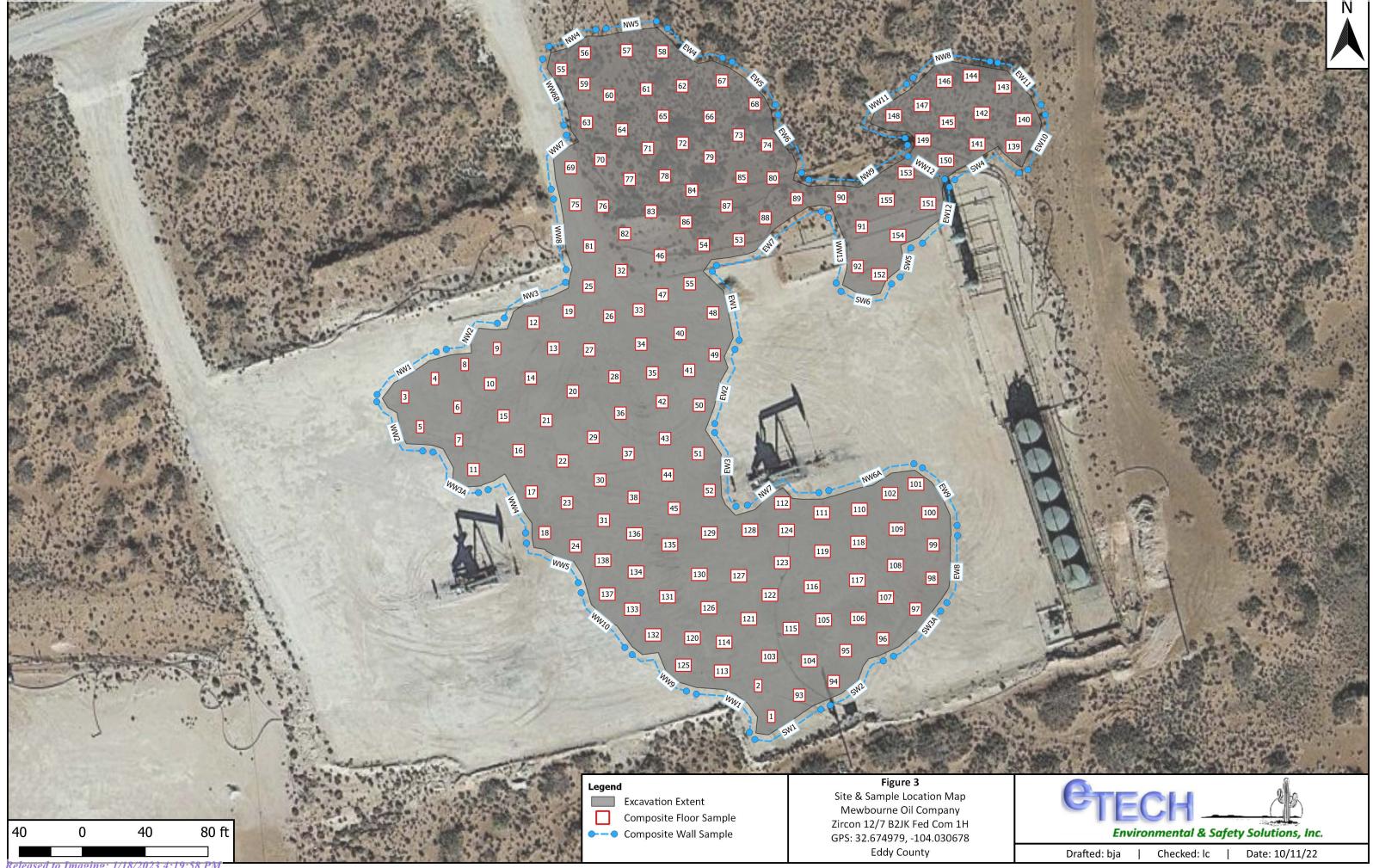


# Figure 2 Site Characterization Map



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# Figure 3 Site & Sample Location Map



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

Table 1											
	Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company										
						-	•				
			Zn				SWD Lin	ie			
NMO	CD Classes C				D Ref. #: n	1	1	<b>N</b> T ( 4	<b>BT</b> ( A	100	(00
	CD Closure C Reclamation			10	50	N/A	N/A	N/A	N/A	100	600
NWIOCD	Reclamation	Stanuaru		10 SW 840	50	N/A	N/A	N/A 7 846 8015M	N/A	100	600
		D 41	6.9	5 11 040	00215			GRO +			4500 Cl
Sample ID	Date	Depth (Feet)	Soil Status	Benzene	BTEX	GRO C <sub>6</sub> -C <sub>10</sub>	DRO C <sub>10</sub> -C <sub>28</sub>	DRO	ORO C <sub>28</sub> -C <sub>36</sub>	ТРН С <sub>6</sub> -С <sub>36</sub>	Chloride
		()	~~~~~~	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	C <sub>6</sub> -C <sub>28</sub>	(mg/kg)	(mg/kg)	(mg/kg)
					Delineation	1 Samples		(mg/kg)			
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		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		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		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		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		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		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
2 13 1 1	C 10 C 10 C 0 C	0.0	IT OF	.0.0.70	Excavation		.10.0		.10.0		1.56
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											
			Zir			-	SWD Lin	ie			
					D Ref. #: n						
NMC	OCD Closure C	riteria		10	50	N/A	N/A	N/A	N/A	100	600
NMOCI	) Reclamation	Standard		10	50	N/A	N/A	N/A	N/A	100	600
				SW 840	5 8021B		SW	846 8015M	Ext.		4500 Cl
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (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		0.5-5.5		< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
WW10	8/4/2022	0.5-5.5		< 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.

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Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company											
			Zir		wbourne ( B2JK Fed	-	•	1A			
			ZII		D Ref. #: n						
NMO	CD Closure C	riteria		10	50	N/A	N/A	N/A	N/A	100	600
	Reclamation			10	50	N/A	N/A	N/A	N/A	100	600
				SW 840	5 8021B		SW	846 8015M	Ext.		4500 Cl
	D.	Depth	Soil			GRO	DRO	GRO +	ORO	ТРН	
Sample ID	Date	(Feet)	Status	Benzene (mg/kg)	BTEX (mg/kg)	C <sub>6</sub> -C <sub>10</sub>	C <sub>10</sub> -C <sub>28</sub>	DRO C6-C28	C <sub>28</sub> -C <sub>36</sub>	C6-C36	Chloride (mg/kg)
				(ing/kg)	(ing/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(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.

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

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Table 1 Concentrations of BTEX, TPH & Chloride in Soil											
			conte		wbourne (						
			Zir		B2JK Fed	-	•	ie			
				NMOCI	D Ref. #: n	APP2215.	352060				
NMO	CD Closure C	riteria		10	50	N/A	N/A	N/A	N/A	100	600
NMOCD	NMOCD Reclamation Standard				50	N/A	N/A	N/A	N/A	100	600
				SW 840	5 8021B		SW	846 8015M	Ext.		4500 Cl
Sample ID	Date	Depth	Soil	_		GRO	DRO	GRO +	ORO	ТРН	
Sample ID	Date	(Feet)	Status	Benzene (mg/kg)	BTEX (mg/kg)	C <sub>6</sub> -C <sub>10</sub>	C <sub>10</sub> -C <sub>28</sub>	DRO C6-C28	C <sub>28</sub> -C <sub>36</sub>	C6-C36	Chloride (mg/kg)
				(ing/kg)	(ing/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(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		< 0.300	<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.

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	Table 1           Concentrations of BTEX, TPH & Chloride in Soil										
			conce		wbourne (						
			Zir		B2JK Fed	-	•	ie			
				NMOCI	D Ref. #: n	APP2215	352060				
NMO	CD Closure C	riteria		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
				SW 840	6 8021B		SW	<b>846 8015M</b>	Ext.		4500 Cl
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	$GRO + DRO \\ C_6 - C_{28}$	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FS 83 @ 2'	7/21/2022	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	(mg/kg) <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' FS 118 @ 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' FS 119 @ 1'	7/28/2022 7/28/2022	1	In-Situ In-Situ	<0.050 <0.050	<0.300 <0.300	<10.0 <10.0	<10.0 <10.0	<20.0 <20.0	<10.0 <10.0	<30.0 <30.0	128 80.0
FS 119 @ 1' FS 120 @ 1'	7/28/2022	1	In-Situ In-Situ	<0.030	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 120 @ 1 FS 121 @ 4'	7/29/2022	4	In-Situ In-Situ	<0.030	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 121 @ 4 FS 122 @ 5'	7/29/2022	5	In-Situ In-Situ	<0.030	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
1.5 122 @ 5	112912022	3	111-51tu	~0.030	~0.300	~10.0	<u><u></u>\10.0</u>	~20.0	<u><u></u>\10.0</u>	<u>∽30.0</u>	40.0

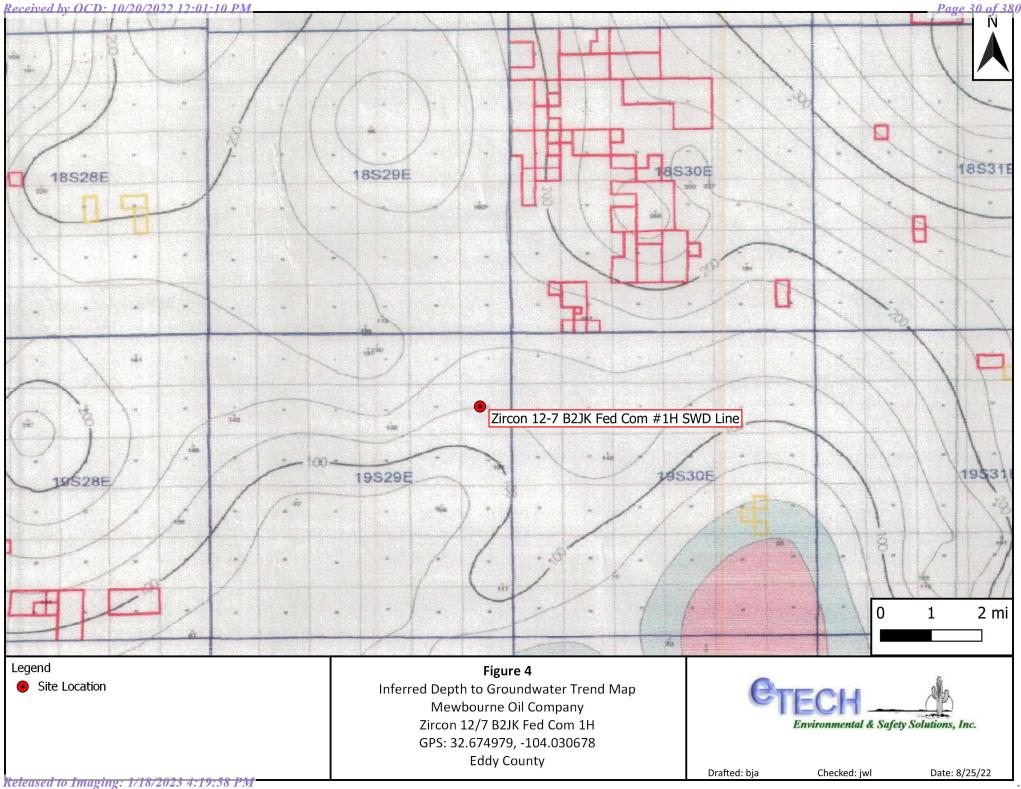
Dash (-): Sample not analyzed for that constituent. **Bold**: NMOCD Closure Criteria exceedance. Red: NMOCD Reclamation Standard exceedance.

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Table 1											
			Conce	entrations	of BTEX,	TPH & C	Chloride in	Soil			
				Me	wbourne (	Dil Compa	ny				
			Zir		B2JK Fed			ie			
				NMOCI	D Ref. #: n	APP2215	352060	-	-		
NMO	CD Closure C	riteria		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
				SW 840	5 8021B		SW	846 8015M	Ext.		4500 Cl
Sample ID	Date	Depth (Feet)	Soil Status	Benzene	BTEX	GRO	DRO	GRO + DRO	ORO C <sub>28</sub> -C <sub>36</sub>	ТРН С. С	Chloride
		(1 000)	Status	(mg/kg)	(mg/kg)	C <sub>6</sub> -C <sub>10</sub> (mg/kg)	C <sub>10</sub> -C <sub>28</sub> (mg/kg)	C <sub>6</sub> -C <sub>28</sub> (mg/kg)	(mg/kg)	C <sub>6</sub> -C <sub>36</sub> (mg/kg)	(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

•

# Appendix A Depth to Groundwater Information



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(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 (quarters are smalles		=SE) (NAD83 UTM in me	eters)	(In feet)
POD Number	POD Sub- Code basin Cou	QQQ unty 64 16 4 Sec Tws	Rng	X Y	-	h Depth Water II Water Column
CP 00820 POD1		E 2 4 13 19S	•	-	1983 12	
				Avera	ge Depth to Wate Minimum Dept	
					Maximum Dept	h:
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.



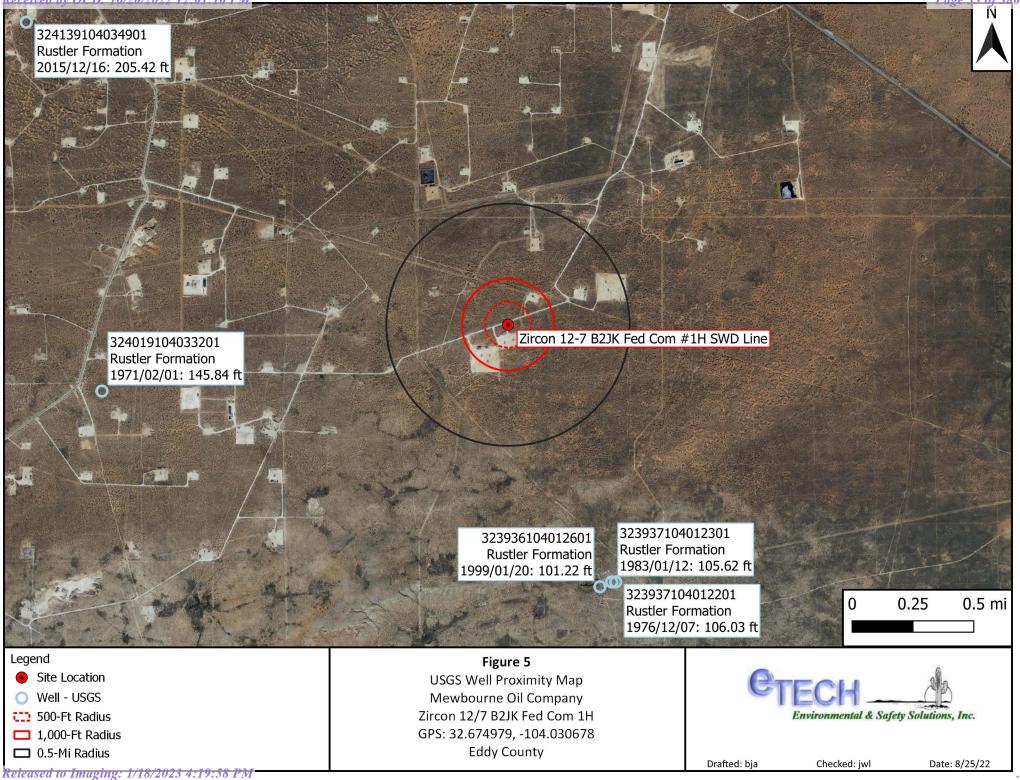
# New Mexico Office of the State Engineer **Point of Diversion Summary**

		(quarters are 1=NW (quarters are small			(NAD83 U	(NAD83 UTM in meters)		
Well Tag	POD Number CP 00820 POD1	<b>Q64 Q16 Q4</b>		<b>Rng</b> 29E	<b>X</b> 591713	<b>Y</b> 3613870* 🥌		
Driller Lic	ense: 122	2 4 Driller Company		JKNOW		3013870		
Driller Naı Drill Start		Drill Finish Date	e:		Ph	ıg Date:		
Log File Date:		PCW Rcv Date:			So	urce:	Shallow	
Pump Type		Pipe Discharge S				timated Yield:	10 GPM	
Casing Siz	<b>e:</b> 7.00	Depth Well:	1	20 feet	De	pth 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





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#### Search Results -- 1 sites found

Agency code = usgs

**Minimum number of levels =** 1

Save file of selected sites to local disk for future upload

#### USGS 323937104012301 19S.29E.13.412243

Eddy County, New Mexico Latitude 32°39'37", Longitude 104°01'23" NAD27 Land-surface elevation 3,315 feet above NAVD88 The depth of the well is 250 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Rustler Formation (312RSLR) local aquifer.

**Output formats** 

Table of data	
Tab-separated data	
Graph of data	
Reselect period	

Date	? 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 <sup>\$</sup> agency	? Source of the source of the	? Water- level approval status
1948-12-21	D	72019	123.55			1	Z			А
1968-04-03	D	72019	114.03			1	Z			А
1971-02-01	D	72019	110.64			1	Z			А
1976-12-07	D	72019	108.08			1	Z			A
1983-01-12	D	72019	105.62			1	Z			А

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

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#### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

• 323936104012601

**Minimum number of levels =** 1

Save file of selected sites to local disk for future upload

#### USGS 323936104012601 19S.29E.13.41224A

Eddy County, New Mexico Latitude 32°39'36", Longitude 104°01'26" NAD27 Land-surface elevation 3,309 feet above NGVD29 The depth of the well is 120.00 feet below land surface. This well is completed in the Other aquifers (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 <sup>\$</sup> code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical \$ datum	? Status	? Method of measurement	? Measuring <sup>\$</sup> agency	? Source of measurement	? Water- level approval status
1990-09-20		D	72019	101.40				S			А
1994-03-18		D	72019	99.83				S			A
1999-01-20		D	72019	101.22			1	S	USGS	S	А

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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### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

• 323937104012201

### **Minimum number of levels =** 1

Save file of selected sites to local disk for future upload

### USGS 323937104012201 19S.29E.13.41224

Eddy County, New Mexico Latitude 32°39'37", Longitude 104°01'22" NAD27 Land-surface elevation 3,321 feet above NAVD88 The depth of the well is 250 feet below land surface. This well is completed in the Other aquifers (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			Р	Z			А
1965-12-09		D	72019	113.03			1	Z			A
1976-12-07		D	72019	106.03			1	Z			А

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	Р	Pumping				
Method of measurement	Z	Other.				
Measuring agency		Not determined				
Source of measurement		Not determined				
Water-level approval status	А	Approved for publication Processing and review completed.				

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### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

• 324019104033201

### **Minimum number of levels =** 1

Save file of selected sites to local disk for future upload

### USGS 324019104033201 19S.29E.10.43211

Eddy County, New Mexico Latitude 32°40'19", Longitude 104°03'32" NAD27 Land-surface elevation 3,371 feet above NAVD88 The depth of the well is 153 feet below land surface. This well is completed in the Other aquifers (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 <sup>\$</sup> code	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical ≎ datum	? \$tatus	? Method of measurement	? Measuring <sup>\$</sup> agency	? Source of measurement	? Water- level approval status
1965-12-09		D	72019	147.59			1	Z			А
1968-04-03		D	72019	145.99			1	Z			A
1971-02-01		D	72019	145.84			1	Z			А

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

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### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

• 324139104034901

### **Minimum number of levels =** 1

Save file of selected sites to local disk for future upload

### USGS 324139104034901 19S.29E.03.12344

Eddy County, New Mexico Latitude 32°41'38.8", Longitude 104°03'52.2" NAD83 Land-surface elevation 3,421 feet above NAVD88 The depth of the well is 240 feet below land surface. This well is completed in the Other aquifers (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 <sup>\$</sup> code	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical ≎ datum	? \$ Status	? Method of measurement	? Measuring <sup>\$</sup> agency	? Source of measurement	? Water- level approval status
1984-07-20		D	72019	192.26			1	Z			А
1994-03-11		D	72019	189.96			1	S			А
1999-01-15		D	72019	188.86			1	S	USGS	S	А
2015-12-16	18:20 UTC	m	72019	205.42			Р	S	USGS	S	А

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Explanation						
Section \$	Code \$	Description				
Water-level date-time accuracy	D	Date is accurate to the Day				
Water-level date-time accuracy	m	Date is accurate to the Minute				
Parameter code	62610	Groundwater level above NGVD 1929, feet				
Parameter code	62611	Groundwater level above NAVD 1988, feet				
Parameter code	72019	Depth to water level, feet below land surface				
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988				
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929				
Status	1	Static				
Status	Р	Pumping				
Method of measurement	S	Steel-tape measurement.				
Method of measurement	Z	Other.				
Measuring agency		Not determined				
Measuring agency	USGS	U.S. Geological Survey				
Source of measurement		Not determined				
Source of measurement	S	Measured by personnel of reporting agency.				
Water-level approval status	А	Approved for publication Processing and review completed.				

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



Date:

5/3/22

### Project: Zircon 12/7 B2JK Fed Com 1H

Project Number:

16072 Latitude:

32.674979

Longitude: \_\_\_\_\_\_-104.030678

Sample ID	PID/Odor	Chloride Conc.	GPS
NHI @ svrface	-	2.0 188	
NHI AI'	~	1.8 (60	
EH Da sugare	-	2.6 188	
EHIRI'	-	1.6 [36	
EH2 PS. SUMMe	-	2.4 <b>2.44</b>	
EH2 QI'	-	1×8 <b>[60</b>	
EH3 A SURAL	-	2.2. 216	
EH2 @ surfay EH2 @ 1' EH3 @ surfay EH3 @ 1' EH3 @ 1' EH1 @ sulfay	-	1.6 136	
SH (~ Sulface	-	2.0 188	
SHIR!		1.9 116	
WHI Ja Surtau		3.6 488	
WHIPI	<u> </u>	2.0 (88	
WHZ QSUTANX	-	2.0 188	
WHZ B/	-	1:8 [PO	
WH3 ( Svokace		2.4 244	
WH3R	-	1-3 60	
SPI @ Sulfau	-	8.0 115. 14052	
SPIQ1 -R	-	7.3 H.S. 10052 Refusul	
5P2 @ SVIAna	<u>^</u>	6.0 H.S. 6356	
SPJ6 1 R	-	6.0 H.S. 6356 Refusal	
5P3 @ SVHue		8.0 H.S. 14052	
5P3@1'		8.0 2584	
5PU @ Svrfmce	-	7.8 H.S. 12864 4.8 832	
SP4 Al	-		
SP5 @ Sylince	-	8.0 H.S. 14052	
SPS @ M		4.0 592	
5Pb @svilla 3Pb @j'	-	8.0 H.S. 14052	
5P6 @ 1'		8.0 2584	
617 @ SVIma		7.8 H.S. 12864	
5P7 Q1'		8.0 2584	
5P6 @ 5' 5P7 @ 5v/hu 5P7 @ 1 5P3 @ 2' 5P4 @ 2'-P	- <u>-</u>	1.8 [60	
SPY W2'-P		6.0 1292 Refusal	
SPS (27-12	-	8.0 2589 Refusal	
5P6(0)2		8.0 2584	
5P5@2'-R 5P6@2' 5P6@2' 5P6@3'		2.0 188 3.6 488	
	-	3.6 488	
Sample Point = SP #1 @ ## etc		Test Trench = TT #1 @ ##	Resamples= SP #1 @ 5b or SW #1b

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ## Refusal = SP #1 @ 4'-R Resamples= SP #1 @ 5b or SW #1b Stockpile = Stockpile #1

Floor = FL #1 etc Sidewall = SW #1 etc

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



Date:

Longitude:

6/15/22

Project:	Zircon 12/7 B2JK	Fed Com 1H	
Project Num	ber:	16072	Latitude:

Project Number:

16072

32.674979

-104.030678

Sample ID	PID/Odor	Chloride Conc.	GPS
SPID2'	-	10 2552	
5P7 @2' 5P4 @#3' 5P5 @#3'	-	2,0 2552	
5P4 @ \$3'	-	5.0 400	
585 Q & 3'	/	2.6 280	
SPU/2 4.		4.8 536	
582@3'		4.8 536	
501 (2) 3'		3.0 354	
		-	
		•	
		· · · · · · · · · · · · · · · · · · ·	
		5°	
		•	
		1.10	
		- 11 - 11	
		· · · · · · · · · · · · · · · · · · ·	
			Resamples= SP #1 @ 5b or SW #1b Stockpile = Stockpile #1 GPS Sample Points, Center of Comp Areas
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
5			
Sample Point = SP #1 @ ## etc Floor = FL #1 etc Sidewall = SW #1 etc			
i			1

Received by OCD: <u>10/20/2022 12:01:10 PM</u>



Date:

6/22/22

Project:	Zircon 12/7 B	2JK Fed Com 1H			-	
Project Numi	ber:	16072	Latitude:	32.674979	Longitude:	-104.030678

	Sample ID	PID/Odor	Chloride Conc.	GPS
	WWI	-	512 (3.2)	
	FLLPS'	-	(3.0)	
	SNI	-	<i>444</i> (3.4)	
	FL2@3	-	212 [2.2]	
	WW2		444	
1	WW3TPHWW3A	-	811 444 . 316	
	NWI	~	816.488	
	FS3e2		488	
	FS 40 2° FS 50 2° TPH 03'	-	400	
4	FS5e2 TPHe3	~	444.356	
	FS602	-	588	
	FS7e2	~	588	
	NWA		2036.756.588	
	FS 8e3'	~	536 536 488	
	FS903	-	536	
	FS10e3	-	488	
1	FS 1 e 3' 24' TPH=14	7.5.22	444	
	FS 1203	-	316	
	FS13e3		356	
	FS14e3'		356	
	FS 15e3	-	536	
	WW4	-	2188-816-444	
	FS 1603	-	488	
	FS 1703	-	444	
	NW3	$\sim$	1896-536	
	FS 18@3' 4' FS 19@3'		816.536	
	FS 1903'		152	
	FS 2003		180	
1	FS21e3		128	
PN	FS22e3		180	
:10	F 5 2 3 e 3		400	
10:0	FS24e3		2128	
2 12	FS25e3	-	3 6	
202	FSabe3		588	
20/2	FS2703		444	
10/	FS 2883		536	
ä	Sample Point = SP #1 @ ## etc		Test Trench = TT #1 @ ##	Resamples= SP #1 @ 5b or SW #1b Stockpile = Stockpile #1
00	Floor = FL #1 etc		Refusal = SP #1 @ 4'-R	
l by	Sidewall = SW #1 etc		Soil Intended to be Deferred = SP #1 @ 4' In-Situ	GPS Sample Points, Center of Comp Areas
Received by OCD:				$\mathcal{O}(\mathcal{O})$



Page 48 of 380

### Sample Log

Date:

7-5-22

Project: Zircon 12/7 B2 YX Fed Cm 1 H Project Number: <u>11072</u> Latitude: <u>32.674979</u> Longitude: <u>-104.020678</u>

Sample ID	PID/Odor	Chloride Conc.	GPS
FS29e3		488	
FS3023'e41/2.5/	-	$\frac{488}{1896 \cdot 588 \cdot 552}$ $\frac{1444 \cdot 356}{536 \cdot 640 \cdot 588}$ $230$ $\frac{140}{140}$	
FS3103'04 /2	~	1444-356	
WW 5 25 WW 5 25		536.640.588	
FSZZEZ		280	
FS33e3 FS34e3	-	400	
FS34e3	-	316	
FS35-3	-	280	
FS3603 e4	-	696-212	
FS 2703 e 5 06	-	>2.552-1348-212	
FS 38°3 ° 5 FS 39°3 ° 5 FS 39°3	-	2036-316	
FS 3903	-	246	
IFS 4003	-	372	
FS 41 F3	-	232	
FS 42=3		232	
FS 4 3 e 3	-	504	
FS 44 e 21/2	-	120	
FS45021/2031/2	-	11563, 456	
	~	8.624	
E X X	~	908	
	25.5	456	
M94621951		7972-296	
-24322		716.232	
	-	172	
FC HARQ		336	
F3 5042	-	456	
	-	372	
75523	-	âbler -	
EWISS EWISS	- EWI	46844880863 9404 2096	
EW22000 EWI 25 EWI23 EW22000 EW2 25	-EW2	4684488 863 9404 21096	
7FS53e41/2	-	534	
FS54e21/2	-	244	
NW4	-	756-316	
S 2020 NW5		536	
REW4	-	1.652-1096 - 1020 - 356	
EW5	~	216	
Sample Point = SP #1@ ## etc		ו est rench = דד #1 @ ##	Paramples- J? #1 @ 30 or SW #15
Sample Point = SP #1 @ ## etc Floor = FL #1 etc Sidewall = SW #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
ivea			
ece.			
~			



Project:

600 ppm

Zircon 12-7 B2JK Fed Com #1H SWD Line

### Sample Log

Date:

122 '3,

Project Number: 16072 Latitude: 32.675798 Longitude: -104.03071 June Neglaen GPS Sample ID PID/Odor Chloride Conc. 5.3 176 NNG 3,4 444 A 1266 a, 3.3 1,5 FS55 536 556 21 3/6 -2.8 2' 5.0 347N 57 1 -2' 58 -----4. 4 G 96 3.8 59 -536 1,5' 4 60 21 260 72 6.0 8 50 NW -103 Kenana NY 444 -64 WE in MM Grip 6.4 lar 3 5.0 5-30 2000 3 BANK ABNONY. 6 AAAA GUP -----3 74 2036 3 T 62 3.10 504 ----3 504 3 0 2,0 a 30 372 2 77 3 5 2 0 31 5 2 1/2 3 Samole 3 C 4 56 4 56 61 7 2 P 96 1 2512 P 1 E ~ 9,0 A 251 2 ,0 X 7 P -37 2 0 Ś 68 7 2.0 11 34 416 7 3. 2 ~ 0 2 7 C 8,2 7 751 66 a 2 -P 8 9 U 2 11 -22 908 5.0 9 65 3:5 4.4 66 1 3.9 ES 68 9 e 7 12 15 Imagi Sample Point = SP #1 @ ## etc Resamples= SP #1 @ 5b or SW #1b Test Trench = TT #1 @ ##

Floor = FL #1 etc Sidewall = SW #1 etc Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

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



Project:

# EWBZENT

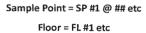
Zircon 12-7 B2JK Fed Com #1H SWD Line

Sample Log

Date:

7/18	2/2	2
-77-7	/	

Project Number:	16072	Latitude: 32.675798	Longitude	-104.03071
NW6		1444	middle of	Read
Sample ID	PID/Odor	Chloride Conc.		GPS
FRIS OVE		3.61 3.72		
F= 1 2 2 2 2 1 1 1 5 1 5 1 5 1 5 1 5 1 5 1	and the second state of	2. 1 7 12		2
NS 196 9 BM S.G.	· · · · · · · · · · · · · · · · · · ·	40 70		\$-
NG 32 7 3181	~	36 504	A Company	
		3.6.504 4.5.976	-	/
TS BACK TOCK		5.5 1216		
rspani 70C1		3.13 504	+	
Whit 7 3/2 C	-	5.4 18054	· .	1
NW7760		9.0 604		
CULS 7		3.4 552	C.	
FS 69e2'	-	PROASO 7936.189	16.280	
FS 69e2'		152		
FS 7002'		128		
FS7102'03'041/2		5.060.696.444	1	
FS 7202'250609'		13.2.52.13284.92	44 - 180	
FS7302'	~	488		
FS7402:31/2	-	2361-588		
FS 7 5e2	-	488		
FS 7602	-	356		
FS7702051/		10.076.		
FS78e2e51/2		6.752		
FS79.2	~	128		
FS 80°2'	~	152		
FS8/02		380		
FS8202'		444		
1-58302	~	316		
FS84e2 = 5		9244.400		
FS85=2'		152		
FS 86°2		244		
F587e2		284		
FS 88e2'		320		
FS 89e2'		320		
FS 90e2		356		
FS 91e 2.		488		
FS 9202		588		
				<u> </u>
Sample Point = SP #1 @ ## etc		Test Trench = TT #1 @ #		Resamples= SP #1 @ 5b or SW #1b Stockpile = Stockpile #1
Floor = FL #1 etc		Refusal = SP #1 @ 4'-R		
Sidewall = SW #1 etc		Soil Intended to be Deferred = SP #	1 @ 4' In-Situ	GPS Sample Points, Center of Comp Areas
				GPS Sample Points, Center of Comp Areas
				T <sup>e</sup> a







Date:

### Project: Zircon 12/7 B2JK Fed Com 1H

Project Number:

16072

Latitude: <u>J2675798</u> Longitude: -104.03071

Sample ID	PID/Odor	Chloride Conc.	GPS
EW6	-	220	
EW7 EW8	-	192	
EWS	-	356	
EW9	-	588	
SW2	-	440	
SW3	-	316	
NW6	-	536	
NWY	-	588	
000 FS93e1021/2	-	2.030-536	
FS 94 01	~	1284	
FS9501	-	320	
FS9601	-	192	
FS9'7e1'	-	192	
FS9801051/2	-	6 84.220	
= 599 el 04'	-	1.576.396	
FS 100 .	-	152	
FS 10/e1	-	168 284	
FS102el'	-	284	
FS 103e)'	-	252	
FS 104e104/2	-	1.576.356	
FS105°)'	-	1192	
FS106°1e3	-	1472-284	
-S10701'e21/2	. ~	700-356	
FS 10 80 1 03	-	892-0 396	
FS 10901	-	252	
FSILOella	-	356	
FSIIIe)	-	252	
SILZORI	-	192	
FS113e1'	~	396	
-5114013	~	2804=144	
FS 1150 03	-	2304-284	
FS 1160 1 03	-	2412-252	
511701	-	220	
FS [180]	-	356	
FS119e1	-	252	
JW9	-	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 Area
Floor = FL #1 etc Sidewail = SW #1 etc			

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Bavi namentni	6	Sater	Solutions, 8

Page 52 of 380

### Sample Log

Date:

7-29-22

Project: Simem	12/7B2JK Fed	Com 1
Project Number:	16072	Latitu

ude: 32.675798 Longitude: -104.03071

Sample ID	PID/Odor	Chloride Conc.	GPS
FS 12001	-	252	FS 14603 8804
FS 121e1e3e4	-	252 1688-700-588 1030-1940-220	WW11 296
FS ladel'ese 5	-	1030-1940-220	
FS 12 301	-	320	
FS 124e1	-	320	
FS12521:4	~	4192.192	
F5/2601	-	320	
F.S 1270/04	-	1688-588	
FS 12801 04	-	1036-320	
FS 12901	-	440	
FS 13001'	-	588	
VW6A	-	536 284	
SW3A	-	284	
F59/03	-	356	
FS1310123 FS13201=4-26	-	4192-284	
FS13201=4-6	-	1940.1196.536	
FS 1330104	-	2792.192	
FS 13401	-	252	
FS 13 5e1	-	252	
FS1360102	-	344.488	
AVA WW10 5 25	)	2236-5240	
		2080-12076	
396		892 - 964.1036.964.488	
FS137e1 e3	*	824 -488	
FS 138 el:	-	488	
EW 10	~	220	
EWI	-	536	
SW4	-	892-356	
NW8	-	<120	
FS 13902	-	536	
FS140e2	-	396	
FS 141e2'e4		1.116-168	
FS 142020405		2412-700-192	
FS 143e2	-	284	
FS 144e2e5	-	5696-192	
FS 145e203	-	700-168	
Sample Point = SP #1 @ ## etc		2080 Test Trench = TT #1 @ ##	Resamples= SP #1 @ Sb or SW #1b
NW9? Floor = FL #1 etc		Refusal = SP #1 @ 4'-R	Stockpile = Stockpile #1
Sidewali = SW #1 etc		Soil Intended to be Deferred = SP #1 @ 4' In-Situ	GPS Sample Points, Center of Comp Area
			Area

	- 4 -
	( ) ~ :
Hard Stranger	A Safeter Solutions, 10.

Date: 8-11-22

# Project: Zircon 12/182/KFed Com 17 Project Number: 16072

Page 53 of 380

\_\_\_\_\_\_ Latitude: 32675798 Longitude: -104.03071

### Sample ID PID/Odor Chloride Conc. GPS S1460 a/2 e 4/2 2804,<120 5/96+416 FS14723-5 -22.372 08.01 FS148900 -:908 76.232 W.5+SW5+ 20-840 12312.37a W 🚳 13 110 149e3 55A 15001021/2-31 172 76+1508+ S 33. W9 336 120 151e -15200102 216-232 -57e 592 -54e 451 -15504/2 -172 156c31/2°51/2°8010012 1868-2552-2736-1772. -4524.11044.9244 -120-840 12 -504 200 -12-01-10 Received by OCD: 10/20/2022-

Sample Point = SP #1 @ ## etc

Test Trench = TT #1@ ## Refusal = SP #1 @ 4'-R

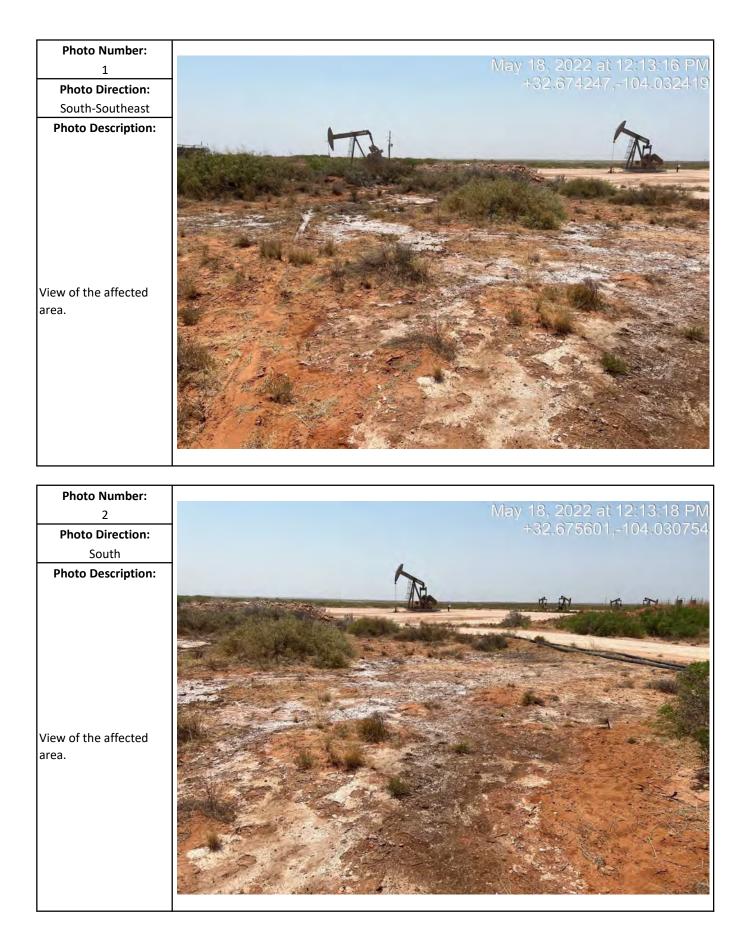
Resamples= St #1 @ 5b or SW #10 Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

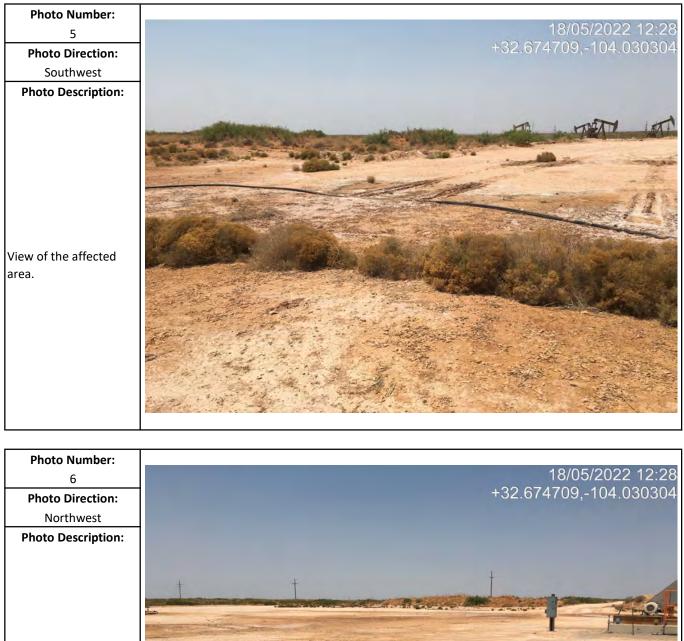
Page 54 of 380					
			Soil Pro	file	
Environmental & Safety Solutions, Inc.			Soli Pro	me	
				Date:	
Project: Zircon 12/7 B2JK					101 000570
Project Number:	16072	Latitude:	32.674979	Longitude:	-104.030678
Depth (ft. bgs)			Des	scription	
1 Caliche	First	Foot caliche	roll after the	net. hit more	e Caliche 3'
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# Appendix C Photographic Log



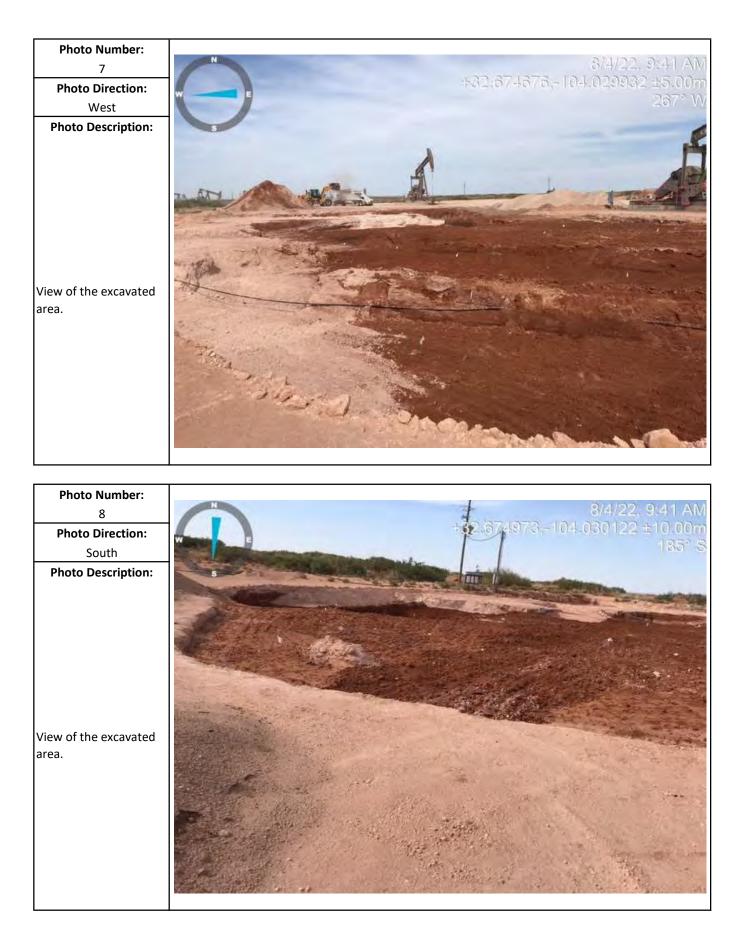


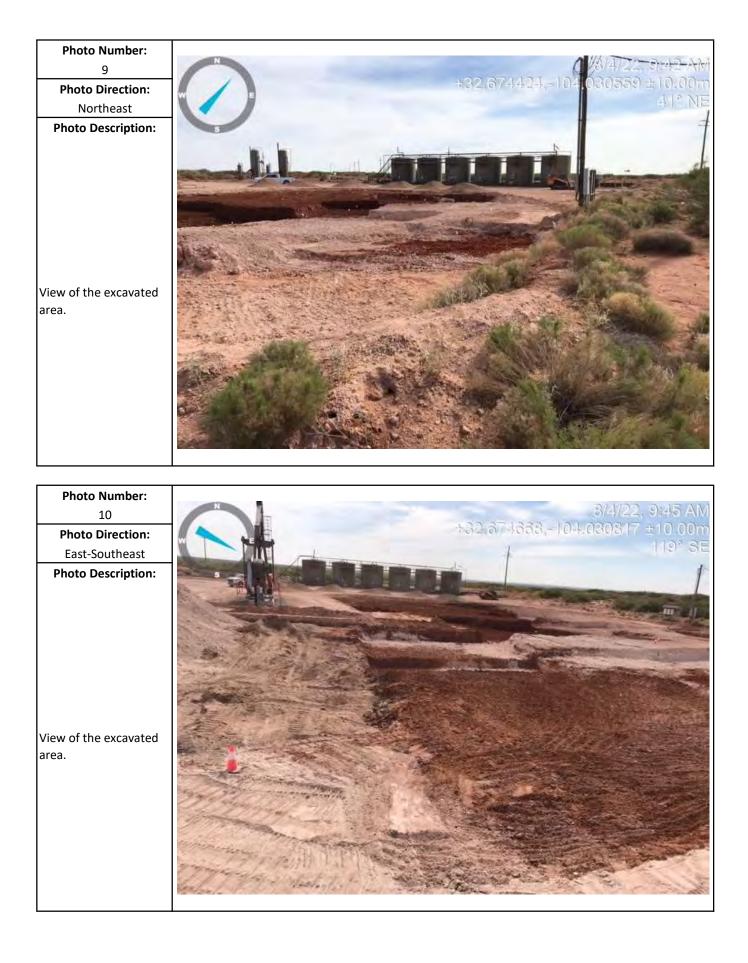




View of the affected area.



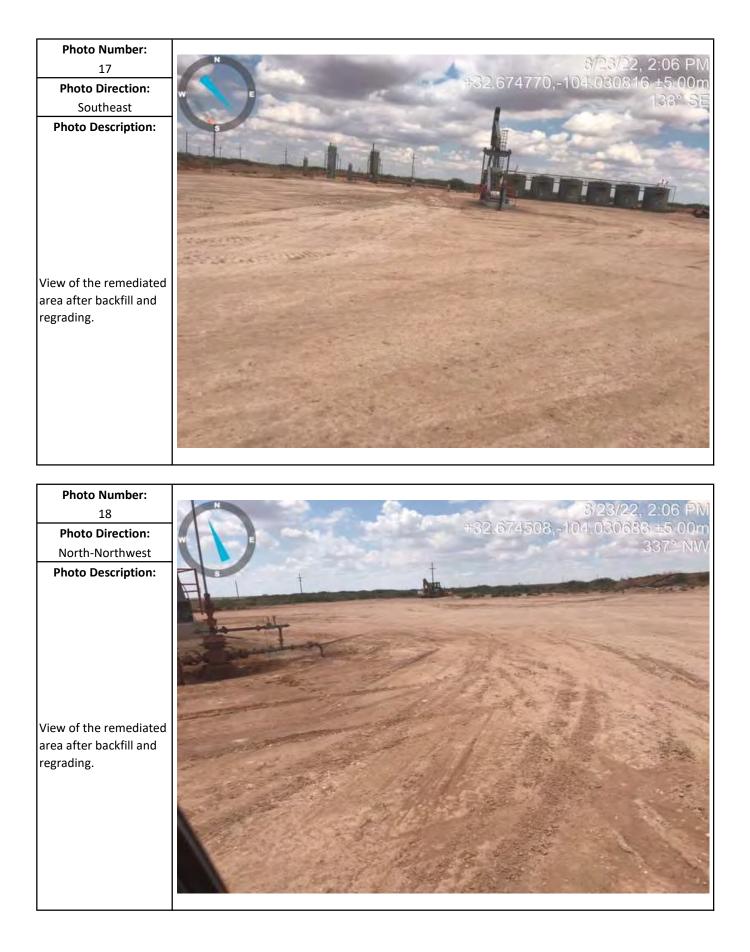


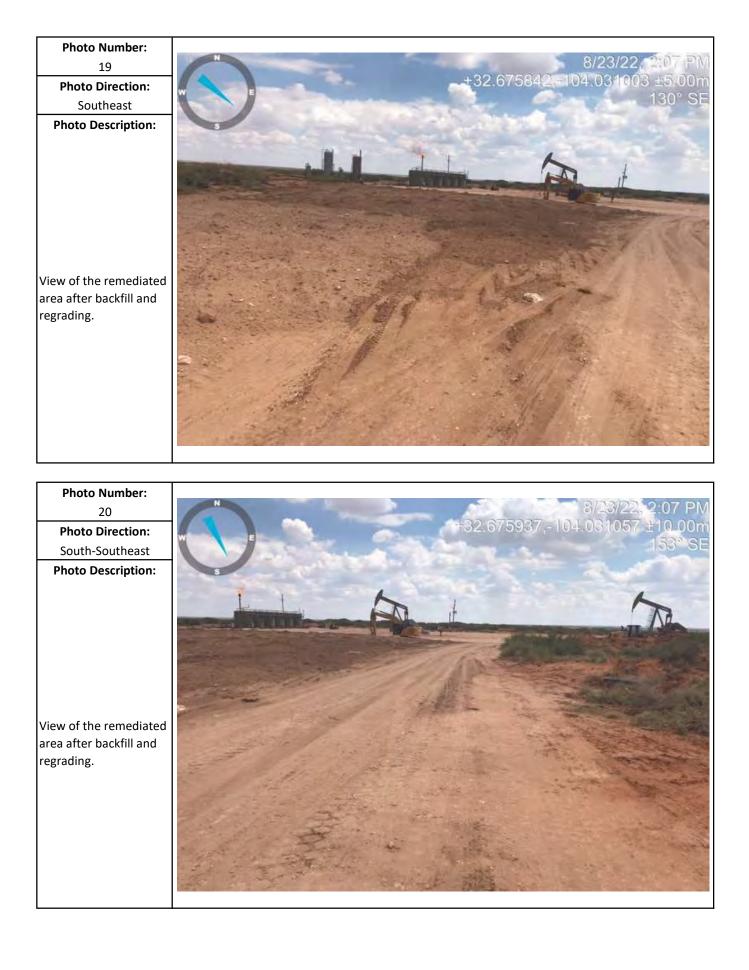












# **Appendix D Laboratory Analytical Reports**



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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



### Analytical Results For:

Etech Environmental & Safety Solutions 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	73.3	% 59.5-14	2						

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#### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	76.9	% 59.5-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	80.9	% 59.5-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	78.5	% 59.5-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	80.1	% 59.5-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	78.6	% 59.5-14	2						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	78.4	% 59.5-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	78.8	% 59.5-14	2						

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	77.6	% 59.5-14	2						

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	78.3	% 59.5-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	06/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	76.4	% 59.5-14	2						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	87.9	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	88.6	% 59.5-14	2						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	82.5	% 59.5-14	2						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	86.4	% 59.5-14	2						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	90.3	% 59.5-14	2						

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# Analytical Results For:

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25000	16.0	06/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	87.0	% 59.5-14	2						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18400	16.0	06/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	90.0	% 59.5-14	2						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	31000	16.0	06/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	90.1	% 59.5-14	2						

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7280	16.0	06/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	88.9	% 59.5-14	2						

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# Analytical Results For:

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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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	27400	16.0	06/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	87.9	% 59.5-14	2						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	06/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	94.9	% 59.5-14	2						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22000	16.0	06/02/2022	ND	416	104	400	3.77	QM-07
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	80.0	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	06/02/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	85.8	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	27600	16.0	06/02/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	97.4	% 59.5-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	06/02/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	95.7	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24400	16.0	06/02/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	92.7	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	06/02/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	101	59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	38000	16.0	06/02/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	95.0	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/02/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	90.5	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by 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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Page 1 of 4

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

Company Name	e: Etech Environmenta	al & Safety Solu	tions,	Inc.				1.20		BI	LL TO						ANA	LYS	IS R	EQUE	ST	
Project Manage	r: Joel Loury							P.O.	#:						T	T	T		T			
Address: 261	17 W Marland							Com	pan	y N	lewbour	A										
City: Hobbs		State: NM	Zip:	8824	0			Attn														
Phone #: (57	5) 264-9884	Fax #:						Add	ress	:												
Project #: 160	670	Project Owne	r: N	lent	our n	ŧ,		City					1									
Project Name:	Reconteday agr	were head 7	· cre	n	2/7	,		State	_		Zip:		0	2W	18							
Project Locatio	n: Rural Eddy c	O NM			1			Pho	ne #:				Chloride	TPH (8015M)	BTEX (8021B)							
Sampler Name:	Miguel Rumi	17.						Fax	#:				Ē	H	X							
FOR LAB USE ONLY			Π		N	ATR	X	P	RES	ERV.	SAMPLI	NG		11								
Lab I.D.	Sample I.	D.	(G)RAB OR (C)OMP	# CONTAINERS GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER :	ICE / COOL	OTHER :	DATE	TIME										
(	NH @ sucture		G	1		X			X		5/35/22		X	X								
2	NHIPI		1	1		1			1		1		4	1	Lí.							
3	EHIP SUFFACE			1		1			1		-		1	11	$\square$		-					_
4	EHIQI		1/	11		1	-	4					4	$\downarrow$		-	-	-	-	-		-
5	EH2@ Surface		1/1		+		-						++	++	-		+	+	-	-		+
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6	EH3@ Surface			++-	+-+	+-	-			-		*	+	++	+-	+	+	+	+-	-		-+-
9	EH3@1' SHI@ Suiface		H		-	+-	+	+	+		+			++	-		-	-	-	-		-
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PLEASE NOTE: Liability an	Demages. Cardinal's liability and clier	nt's exclusive remedy for a	ny claim	arising w	hether ba	sed in c	ontract	or tort, sl	nail be i	imited to	the amount pair	d by the client for		I. ¥	ļ			-		-		
servee. In no event shall C affiliates of successors arms Relinquished Br Relinquished Br Relinquished Br	lhy	usential damages, including of services hereunder by ( Date: 5 - 31 - 222 Time: 15 2 4 Date: Time:	Rec	regardles ceived	s of whe By:	umetni a	plians, in h claim i	is based	e, or los upon ar		dis incurred by c	dent, in subsidier	ies, sult: t: S:		85		Add	I Phone I Fax #		techen	v.com.	
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# Page 99 of 380

**RDINAL LABORATORIES** 

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476	and the second second	Page 1 of 4
Company Name: Etech Environmental & Safety Solutions, Inc.	BILL TO	ANALYSIS REQUEST
Project Manager: Joel Loury	P.O. #:	
Address: 2617 W Marland	Company Mewbourne	1
City: Hobbs State: NM Zip: 88240	Attn:	1
Phone #: (575) 264-9884 Fax #:	Address:	
Project #: 16072 Project Owner: Men bovine	City:	
Project Name: Zircon 12/2	State: Zip:	
Project Location: Rural Edgy co, Nm Sampler Name: Minuel Romine	Phone #:	Chloride TPH (8015M) BTEX (8021B
Sampler Name: Minule Romine	Fax #:	
FOR LAB USE ONLY MATE	X PRESERV. SAMPLING	
Tap I'D       Samble I'D         (G)RAB OR (C)OMP       # CONTAINERS         # CONTAINERS       # CONTAINERS         Soll       Soll	SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : AMIL ALVO	
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PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in	ontract or tort, shall be limited to the amount paid by the client for	rthe
analyses. All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in w service in no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interv		
affiliates or successors arrang out of or related to the performance of services hereunder by Cardinal, regardless of whether sur         Relinquished By:       Date:         Received By:       C-0.5         Sampler - UPS - Bus - Other:       S.0 c         State       State	a claim is based upon any of the above stated reasons of officiant Phone Re Fax Resu REMARK Please e indition CHECKED BY: (Initials) Yes No	email results and copy of CoC to pm@etechenv.com.
FORM-006 † Cardinal cannot accept Revision 1.0	t verbal changes. Please fax written o	Manges to 919-999-4410

Page 100 of 380

**RDINAL LABORATORIES** 

101 East Marland, Hobbs, NM 88240

Company Nam	(575) 393-2326 FAX (575) 393-2 e: Etech Environmental & Safety Solu	-	-	~	-	-	-	1	-	-		11 90		-	-	_		AN			REQU	ICCT	Pa	ge 1 of	A
Project Manage		uona	5, 111	<b>G</b> .					0. #		0/1	LL TO		-	-	T	T	AN	ALTO		REQU		T		_
	ar: Joel Lowry 17 W Marland	-							-	-	-	01.1	20 1												
City: Hobbs	State: NM	Zin	. 99	240					ompa	any		iv chil	ovra												
	75) 264-9884 Fax #:	Zip	. 00	240					tn:																
									Idre	<b>SS</b> :	_														
Project #:	16079 Project Owne	r: p	NU	Wb	eu (	m	-	1	ty:	_					E	1 m									1
Project Name:	Zircon p/7	_		_				St	ate:			Zip:		de l	TPH (8015M)	BTEX (8021B)									
Project Locatio	NUM CUNY COTTO							Pł	none	#:	-			Chloride	8	8	-							1	
Sampler Name	Miguel Rumiaz	-	-	-			-	Fa	X #:	10.5	and I	0.110		D D	F	Ê									
FOR LAB USE ONLY		a.	E		N	LATR	XIX	Т	PR	SE	RV.	SAMP	LING			0									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
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28	SP6 @ 3'	11	$\square$			1	_			1	1	-		11	11		-	-	+	-	-	-	-		
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**Revision 1.0** 



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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/16/2022	ND	384	96.0	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/16/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	83.7	% 59.5-14	2						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/16/2022	ND	384	96.0	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/16/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	87.2	% 59.5-14	2						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene* <0.		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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/16/2022	ND	384	96.0	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/16/2022	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	06/16/2022	ND					
Surrogate: 1-Chlorooctane 79.7 % 66.9-1			6						
Surrogate: 1-Chlorooctadecane	87.4 % 59.5-14		2						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/16/2022	ND	384	96.0	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/16/2022	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	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	87.5	% 59.5-14	2						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

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

### **Cardinal Laboratories**

### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose site to the services interruptors, loss of profits incurred by client, its subsidiaries, afflictes or successor arising out of or related to the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

**RDINAL LABORATORIES** 101 East Marland, Hobbs, NM 88240

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10000

Company Name: Etech Environmental & Safety Solutions, Inc.								BILL TO									ALYS	SIS F	REQU	EST	Page	1 01 1
Project Manager: Joe/Lowry								P.O. #:								T	T	T	T	TT	1	
Address: 2617 W Marland									Company Meubourne													1
City: Hobbs State: NM Zip: 88240								Attr														
Phone #:         (575) 264-9884         Fax #:           Project #:         16072         Project Owner:         Metabour ne								Add	ress	:												
								City	:													
Project Name: Zircon 12/7 B2JK Fed com 1H							Stat	te:		Zip:	0	TPH (8015M)	218									
Project Locatio								Pho	ne #	:			Chloride	801	80							
Sampler Name	Miguel Rampos							Fax	#:				ਲ	H	BTEX (8021B							
FOR LAB USE ONLY		L	Г		MA	TRIX		1	PRES	ERV.	SAMPLI	NG		=	8							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	OTHER :	DATE	TIME										
1	SPID3'	GG	1		X				X		6/15/22	10:30	X	X	X							
2	5P2@3'		1		Y				X	(	415/22	11:00	X	X	X	_		-	-			
3	SP4@4'	G	1		X	1		-		5	6/15/22	11:30	X	X	X	-	-	-	-			
4	SP5@ 3'	G	1		X	-		+	1	X	6/15/22	12:00	X	X	X		-					
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	and Damages. Cardinal's liability and client's exclusive remedy for ling those for negligence and any other cause whatsoever shall be													bie					-			
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Received by OCD: 10/20/2022 12:01:10 PM

Page 7 of 7



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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/29/2022	ND	448	112	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2022	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	06/29/2022	ND	448	112	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2022	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	1						
Surrogate: 1-Chlorooctadecane	73.8	% 42.5-16	1						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/29/2022	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2022	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	% 42.5-16	1						

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Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/29/2022	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2022	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	% 42.5-16	1						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/29/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2022	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	% 42.5-16	1						

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Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/29/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2022	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	% 42.5-16	1						

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Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/29/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2022	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	% 42.5-16	1						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/29/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2022	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	% 42.5-16	1						

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Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/29/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2022	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	1						
Surrogate: 1-Chlorooctadecane	78.6	% 42.5-16	1						

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Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/29/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2022	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	% 42.5-16	1						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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 SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

No Rush

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#### CHAIN OF CUSTODY AND NALVER DECLICET

Page 13 of 13

City: Hobbs State: NM Zip: 88240 Attn: Robbie Rugaels	Company Nam		lutions	s, fii	iC.					Γ			BI	LL TO	1. A. A.					ANA	LYS	IS R	EQUE	EST	
Address:       2817 W Marland       Company Multiplication         City:       Hobbs       State: NM       Zip: 88240       Attn: Rabie       Rundels         Project 8:       (75) 264-9884       Fax 8:       Addressi 80) $P_{urintop} P_{ik} Blid       Romes       Romes     $	Project Manage	r: Joe/Lowry								P.	0.1	k:								T	T	T	T	T	T
City:       Hobbs       State:       NM       Zip: 88240       Attn: Robit:       Runcls         Prone #:       (575) 264-9884       Fax #:       Addressil 801 $B_{u:ard}$ $R_{udd}$ Project Name:       Zircon       12/1       BZIK       Fax #:       Addressil 801 $B_{u:ard}$ $R_{udd}$ Project Name:       Zircon       12/1       BZIK       Fax #:       Addressil 801 $B_{u:ard}$ $R_{udd}$ Project Name:       Zircon       12/1       BZIK       Fadom       H       State://M       Zip: 882/40 $R_{udd}$ Project Location:       Eval       Location:       Location:       Location:       Location:       Rest       Rest       Sampler Name:       Rest       Rest <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>C</td> <td>omp</td> <td>an</td> <td>y M</td> <td>enbourn</td> <td>c</td> <td></td>										C	omp	an	y M	enbourn	c										
Project 8: $1/2/72$ Project Owner:       Methourne       City: Holds         Project Name:       Zirzon       12/7       B2TK       Falan       H         Sampler Name:       Zirzon       12/7       B2TK       Falan       Phone 8:         Sampler Name:       Maint       I 18:22       Zirzon       Fax 8:       Project Name:       Project Name:       Project Name:         Lab I.D.       Sample I.D.       Barrier       Maintain Presserv       SAMPLING       Project Name:       Project Name: <td>City: Hobbs</td> <td>State: NM</td> <td>Zip</td> <td>: 88</td> <td>3240</td> <td>)</td> <td></td> <td></td> <td></td> <td>A</td> <td>ttn:</td> <td>Rol</td> <td>bhie</td> <td>Runel</td> <td>\$</td> <td></td>	City: Hobbs	State: NM	Zip	: 88	3240	)				A	ttn:	Rol	bhie	Runel	\$										
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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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	06/30/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2022	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	1						
Surrogate: 1-Chlorooctadecane	84.7	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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 6 @ 2' (H222798-02)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2022	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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	06/30/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2022	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/30/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2022	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/30/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2022	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/30/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/30/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/30/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/30/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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		1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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	/01/2022 ND 5.98 99.7		99.7	6.00	3.61	
Total BTEX	<0.300	0.300	07/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/30/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	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		1						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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		Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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		1						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by 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**

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose site to the services interruptors, loss of profits incurred by client, its subsidiaries, afflictes or successor arising out of or related to the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

No Rush

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDI	NAL	LABO	ORAT	ORI	ES
101	East I	lariand,	Hobbs,	NM	88240

(575) 393-2326 FAX (575) 393-2476 Company Name: Etech Environmental & Safety Solutions, Inc.					12	1	ILL	TO					AN	ALYS	S PE	OLIES	ST.			
Project Manager: Lance Crenshaw Address: 2617 W Marland				P.(	0. #:		-			-			T	T	GOL		T			
					mpany	Mai	L													
				Att	n: R.b.	1.	2	,le												
hone #: (57	5) 264-9884 Fax #:					Ad	dress:	SOI B	win	P. K.B.	Red .									
roject #: )	6072 Project Ow	er: P.L	hie	Run	le		Address: 4801 Busiles P. K.					-								
roject Name:	Zircon 12/7825	k Fe	AC	A CO	IH		ate: NA		88	140		Ŵ	18)							
roject Locatio	"Mewbourne Oil C		0.11	- m	1_11		one #:		000		Chloride	TPH (8015M)	BTEX (8021B)							
ampler Name:		in the	J			-	Fax #:				Chi	H	EX I							
FOR LAB USE ONLY		TT	T	MA	TRIX	-1	PRESER	V. SA	MPLI	NG		H I	BT							
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP	SROUNDWATER	WASTEWATER	OIL	OTHER ;	ACID/BASE: ICE / COOL	D/	TE	TIME										
1	NWa	CI	T	1			1	6.21	1.22		1	1	1		T				1	-
2	F56=2'	C		1			4	2			5	1	~							
3	FS7e2	C		1			1			_	5	1	1							
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5	FS903	C	+	1	++	+	1	1	$\geq$		1	1		-+-	-	-			+	
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10	FS 14e3'	c	-	J	++		V	P	7		V	V	V		-		-	-	-	-
9 10 EASE NOTE: Liability ar atyses. All claims includin rvice. In no event shall C limites or autocompose shall beling uished By	FS 14 $\oplus$ 3' id Damages. Certifical's liability and client's exclusive remedy is genes for negligence and any other cause whateover that ardical be liable for incidential or consequential damages, inch genes of or related to the performance of services hereunder	e any claim ar be deemed without lin ing without lin y Cardinal, re	ining who alved units and	other base sees mede bubbress is of whether		ict or tort, and receil s, toss of m is base	shall be fimile shall be fimile use, or fore o ed upon any o	d to the am within 30 d profile incur the above s	Aunt paid type after red by cli	by the client for completion of th ant, its subsidiari sons or otherwis	ies, e.		~ ~ ~ ~							
M ed B d Bv:	6-29-2. Time: 551 Date: Time:	Rece	eived	ø	Intact			KED BY	-	Phone Ret Fax Result REMARKS Please et	t:;		<u>s</u>	o Add	Phone FiFax #:		chem	/.com.		

Released to Imaging: 1/18/2023 4:19:58 PM

Received by OCD: 10/20/2022 12:01:10 PM



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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/05/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	07/01/2022	Sampling Date:	06/29/2022
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 15 @ 3' (H222848-02)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/05/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/05/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/05/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	07/05/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/05/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

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#### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/05/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	42.5-16	1						

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#### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/05/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	DCI-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	% 42.5-16	1						

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#### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/05/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

## Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/05/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	1						
Surrogate: 1-Chlorooctadecane	81.6	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/05/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

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## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	07/05/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

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## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	07/05/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	1						
Surrogate: 1-Chlorooctadecane	80.5	% 42.5-16	1						

## Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	07/05/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	60.4	% 43-149	)						
Surrogate: 1-Chlorooctadecane	67.8	% 42.5-16	51						

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

TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	61.7 9	% 43-149	)						
Surrogate: 1-Chlorooctadecane	69.6 9	42.5-16	1						

## **Cardinal Laboratories**

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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

Routine

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 20 of 21

Project Manager: Address: 2617 V City: Hobbs	Vance Creashaw W Marland				-						2010	LL TO					-	NAL			
	1							F	P.O. 1												
"ite: Hobbe			-					c	Comp	pany	M	ewbou	Ine								
ity. Thobbs	State: NM	Zip	: 88	240				A	Attn:	Ra	65.	e Runnel 11 Busines	15								
Phone #: (575) :	264-9884 Fax #:							A	Addre	ess:	430	Busines	SP,KBh	1							
Project #: 160	72 Project Own	er: R	app	ie	Pu	110	15		City:												
Project Name: 7	ircon 12/7 B2JK F	010	C.	-	11	f	-		State			Zip: 88	240		(W)	BTEX (8021B)					
Project Location:	Mewbourne Oil Con	0.0	- 4	-	11				hon	hit	-		- / -	Chloride	TPH (8015M)	802					
Sampler Name: )	Frie Mojich	pa	g					÷	ax #					- HC	H (8	X					
FOR LAB USE ONLY		T	Г		h	AT	RIX	T	_	RESE	RV.	SAMPLI	NG		F	Ha					
		d.		~						1											
		G)RAB OR (C)OMP	RS	GROUNDWATER	£																
Lab I.D.	Sample I.D.	OR (	# CONTAINERS	MO	WASTEWATER		1.		U S	4											
		AB	EN0	IN I	TEV			SLUDGE	ACID/BASE	CE / COOL	ER										
1222848		(G)R	# CO	GRO	MAS	SOIL	OIL	SLU	OTHER ACID/BA	CE	OTHER	DATE	TIME								
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9	-S 2 2 e 3	C	1			1	-	_		1			_	1	1	1					
10	FS23e3	C	11			1				1		-		1	1	1					

**Revision 1.0** 

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

Routine

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 21 of 21

	(575) 393-2326 FAX (575) 393-	2476																			_		
Company Nam	e: Etech Environmental & Safety Sol	lutions	s, In	C.					BI	LL TO	4000	2				ANA	LYSI	S RE	EQUE	ST			
Project Manage	er: Lance Creashaw						P.(	0. #:	-														T
Address: 26	17 W Marland						Co	mpa	ny M	erboy	INE	1							1				
City: Hobbs	State: NM	Zip	: 88	240			At	tn: R	abbi	e Rus	13	1											
Phone #: (57	75) 264-9884 Fax #:						Ad	Idres	5:48	OI Busi	P.KB	1											
Project #: 1 L	072 Project Own	er: R	11	R		1.	Attn: Robbie Runnels Address: 4801 Busines Pik Bl City: Hobbs					4											
	Zircon 12/7 B2JKFe	10	100	1H	AA	ers.	Ch				21/A		Ŵ	18									1
Project Locatio							State: NM Zip: 88240 Phone #: Fax #:				P	015	BTEX (8021B)										
	1 CONDOLLO VII	npa	ni	9							Chloride	TPH (8015M)										1	
FOR LAB USE ONLY	Eric Mojica	T	T	1	MAT	RIX	ra	-	SERV	SAMPL	ING	Ū	đ	STE									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	OTHER :	ACID/BASE:	ICE / COOL OTHER :	DATE	TIME												
11	F524e3	C	5		1			T,	1	7.1.22		V	~	V									
12	F325e3	C	Ti		1				V			1	~	1									
13	FS2603	C	II		1				1			V	1	1									
14	FS2703	C	1		1				V			~	1	V									
15	FS28e3	C	I		1				1			1	~	$\checkmark$					6				
10	WW3A	C	1		V				1			X	J	X	1	0	mo	rec	¥ .		C		
	FS 5e3	C	1		1			,	1			X	1	X			D	r(	ust	bund	0.		
17	NIM3	C	1		1			1	/			V	V	1			1				75	er	
	551																				1.		
	7.1-2.2																						
enalyses. All claims includ service. In no event shall C	nd Damages. Cardinal's liability and client's exclusive remedy for lag these for negligence and any offer cause whistoever shall be cardinal be liable for incidental or consequental demages, includ ing out of or related to the performance of services hereunder by V: Date:	e deeme ing without Cardina	d waiw ut limite i, regai	ed unions m stion, busine	ade in as inte atter :	writing a muption	und recei	ived by C f use, or	Cardinal v loss of pr	within 30 days aft rollis incurred by	client, its subsidie	nies, iec.	No Ye	• •	No	Add'I	Phone	#					
0	7-1-22					10					Fax Resu	lt:	C Ye				Fax #:						
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Delivered Bv: (Circle One) USC - D.52 Sampler - UPS - Bus - Other: 5-62 #113					Intact		2	HECK	(ED BY: ials)	Please email results and copy of CoC to pm@etechenv.com.													

**Revision 1.0** 

Received by OCD: 10/20/2022 12:01:10 PM

Page 155 of 380



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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	91.5	% 42.5-16	1						

## Sample ID: WW 5 (H222896-02)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 84.3 % 69.9-140

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	07/07/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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: WW 5 (H222896-02)

TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

## **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	07/07/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

## Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	07/07/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

## Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/07/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	1						
Surrogate: 1-Chlorooctadecane	96.3	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/07/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

## Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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 % 69.9-14			0						
Chloride, SM4500Cl-B mg/kg			Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	07/07/2022	07/07/2022 ND		108	400	0.00	
TPH 8015M	mg/	kg	Analyze	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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 % 69.9-14			0						
Chloride, SM4500Cl-B mg/kg			Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/07/2022	07/07/2022 ND		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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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 %		% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 42.5-16	1						

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## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/07/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	1						
Surrogate: 1-Chlorooctadecane	88.4	% 42.5-16	1						

## Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Routine

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 13 of 13

	(575) 393-2326 F		_	-	-	_		-	-			-		_		_					-
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Project Manage	- ANCE CIEN	shaw							P.0												
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						Add	res	5:48	OB Juine	SPrk Blud								1			
Project #: ] b	072	Project Owne	r: R.	bbi	e K	Vea	els		City	: H	obbs										
Project Name:	Zircon 12/7B	2JK Fed	Com	)	H				Stat	be: N	M	Zip: 88	240	8	5M	21E					
Project Locatio	Mewbourne. Eric Moiic	Dil Company	2.4						Pho	ne	k:			Chioride	TPH (8015M)	3TEX (8021B)					
Sampler Name:	Eric Moiic	~	0						Fax	#:				- F	H	۲ ۵					
FOR LAB USE ONLY	9				-	M	ATR	X		PRE	SERV	SAMPL	ING		4	6					
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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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions 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	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

## **Cardinal Laboratories**

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

(A)	RDINAL 101 East M			
	TUT East M	anano, no	DDDS, NM	0024

Routine

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 12 of 12

101	East	Marland	Hobbs,	NM	88240
(5	75) 3	93-2326	FAX (57	5) 39	3-2476

Company Name	: Etech Environmental & Safety S	olutions, Inc.	BILL TO			ANALYSIS REQUEST
Project Manage	"Lance Crenshaw	P.O. #:				
Address: 261	ess: 2617 W Marland 0			AR		
City: Hobbs	State: NM	Zip: 88240	Company Mewbourne Attn: Robbie Runnels Address: 480 Business Pok Bld			
Phone #: (575) 264-9884 Fax #:		Address: 48018	. P. K. BIJ			
Project #: \ L	072 Project Ow	ner: P.U. R. J.	City: Hobbs	-2 Harris		
Project Name:	7. 12/7RITKE	1 C IL	State: NM Zip: 88	240 0	1B) W	
Project Location	072 Project Ow Zircon 12/782JK Fe Mewbourne Oil Comp Eric Mojica	a con III	Phone #:	Chloride	TPH (8015M) BTEX (8021B)	
Sampler Name	E. M.	any	Fax #:	hlo	8) T (8)	
FOR LAB USE ONLY	Eric / lojica	MATRIX	PRESERV. SAMPL		I I I I I I I I I I I I I I I I I I I	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL	OTHER : ACID/BASE: ICE / 300-	TIME		
1	FS 3706	CIV	1 7.6.22	1	11	
3	FS 3805	CIV		1	11	
34 46	FS 39e3	CIV	1 7.7.22	1	11	
4	FS 40.3	CIII		$\checkmark$	11	
5	FS 41e3	CIV	1	V	11	
6	FS 42e3	CIV		V	11	
7	FS 43e3	CIV	1	V	V 1	
8	FS 44e21/2	CIV		1	11	
9	FS 45031/2	CIV	1	1	11	
	nd Damages. Cardinal's liability and client's exclusive remedy					
Arrice. In no overst shall C Mades or successors and Relinquished Br Cur MA Relinquished Br Delivered By:	ng those for negligence and any other cause whatsoever she available for incidental or consequential damages, inc ng out of or related to the performance of services hereardee V: V: V: Date: 7 - 7 - 2 Time: 5.17 Date: Time: Circle One) - Bus - Other: 5.3c	uding without testilation, business interruption by Cardinal, regardless of whether such ch Received By: Received By: Received By: Sample Conv Cool Intac	is, loss of use, or loss of profile incurred by in is based upon any of the above stated re ignuture if CHECKED BY: (Invitiants)	client, ils subsidiaries, escons or otherwise, Phone Result: Fax Result: REMARKS:	Yes No	

Released to Imaging: 1/18/2023 4:19:58 PM

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



### Analytical Results For:

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

Received:	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, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/12/2022	ND	432	108	400	7.69	

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

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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					

69.9-140

Surrogate: 4-Bromofluorobenzene (PID 107 %

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/12/2022	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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					

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	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 46 @ 5' (H222947-02)

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

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/12/2022	ND	432	108	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	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 48 @ 2' (H222947-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/12/2022	ND	432	108	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	1						
Surrogate: 1-Chlorooctadecane	70.8	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	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	Analyze	d 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 % 69.9-14		0							
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/12/2022	ND	432	108	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	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	Analyze	d 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 % 69.9-14)		0							
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/12/2022	ND	432	108	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	42.5-16	I						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	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	Analyze	d 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 % 69.9-14)		0							
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/12/2022	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	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	% 42.5-16	1						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	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	Analyze	d 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 % 69.9-14		0							
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/12/2022	ND	432	108	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	1						
Surrogate: 1-Chlorooctadecane	96.0	% 42.5-16	1						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	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	Analyze	d 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		0							
Chloride, SM4500Cl-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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose site to the services interruptors, loss of profits incurred by client, its subsidiaries, afflictes or successor arising out of or related to the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Routine

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

Company Name: Etech Environmental & Safety Solutions, Inc.		BILL TO				ANALYSIS REQUEST			
Project Manager:	Lance Crenshaw		P.O. #:		T				
Address: 2617			Company Mewbo.	ine					
City: Hobbs State: NM Zip: 88240			Attn: Robbie Run	nels					
	264-9884 Fax #:		Address: 480 Buss	es Pikplyd					
Project #: 160	72 Project Own	er: Robbie Runels	City: Habbs						
Project Name: Z-	incon 12/7 B2JK Fe	d Con 1H	State: NM Zip: 8	8240 0	WS	10			
Project Location:	72 Project Own incon 12/7 B2JK Fe Mewbourne Oil Comp	And	Phone #:	Chloride	FPH (8015M)	3TEX (8021B)			
Sampler Name: E	Éric Mojica	aj	Fax #:	- Ho	H	X			
FOR LAB USE ONLY		MATRIX	PRESERV. SAMP	-	14	18			
Lab I.D. H222947	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	ACID/BASE: ACID/BASE: OTHER : OTHER :	TIME					
IF	FS30e 51/2	c I V	1 7-8-2	2 ~					
2)	FS 46 - 5'	CIJ	1		1 1	1			
31	=54703	CIV			11	1			
4 F	54802	CI V	V	~	1	1			
5	=54902	CIV	V	V	1	1			
6	ES 5002'	CIV	V	~	1	1			
7	ES 5102	CIV	V		1				
8	FS 5202	CIJ	VE	V	1	V			
9	EW3	CIV	V	~	11	$\checkmark$			
artyses. All claims including the rvice. In no event shall Cardin linkes or successors arising or cellinquished By: La Mayo Relinquished By:	emages. Cardinal's liability and client's exclusive remody for neee for medigence and any other cause whatsoever shall b rai be liable for incidental or consequential damages, includ ut of or related to the performance of services hereunder by Date: 7-8-23 Time: 525 Date: Time: Circle One) 12-4°, C-0.5 Bus - Other: 11.9°, #1	e deemed walved unless mede in writing as ng without linkation, business interruptions Cardinel, regardless of whether such claim Received By: Received By: Received By: Sample Condi Cool Intact	nd received by Cardinal within 30 days a , tons of use, or tons of profile incurred to in based upon any of the above stated gamma days and the above stated tion CHECKED BY:	Aler completion of the apply y client, its subsidiares, reasons or otherwise. Phone Result: Fax Result: REMARKS:	Q Ye	s 🗆 No			

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



### Analytical Results For:

Etech Environmental & Safety Solutions 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	07/14/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/14/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### 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	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	07/14/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/14/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16							

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/14/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/14/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/14/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/14/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

## YSIS REQUEST

Page 11 of 11

(575) 393-2326 FAX (575) 393-2476 Company Name: Etech Environmental & Safety Solutions, Inc.									l	3/1	LL TO						ANALY	SIS	REQ	JEST		
Project Manage	r: Lance Crenshaw							-	0. #	-	-											
Address: 261	7 W Marland							Company Mewbourne				me										
City: Hobbs State: NM Zip: 88240						At	tn:	Rohl	1.0	e Runni	els											
	5) 264-9884 Fax #:							Ad	idre	ss:4	-80	31 Busines	sfikard									
Project #: 16	072 Project Owr	er: R	abi	bie	Ru	nel	13	Ci	ty:	Hul	26	5										
Project Name:	Zircon 12/732JK Jed C	am	1 H					St	ate:	NM		Zip: 88	240	qe	FPH (8015M)	BTEX (8021B)						
Project Locatio	n: Mewbourne, Oil Comp	200	-					Ph	none	#:	_			Chloride	(801	(80						
Sampler Name:	Eric Mojica	-						Fax #:					ч	H	<b>E</b>							
FOR LAB USE ONLY				-	-	MATE	XIX	1-	PR	ESER	۲V.	SAMPLI	NG		F	60						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	OTHER :	ACID/BASE:	ICE / OOOF	OTHER :	DATE	TIME									
1	EWI	C	)			V				1		7-11-22		$\checkmark$	~	1						
a	EWA	C	1			1		_		V				1	~	~			-	-	-	+
an y	FS 53041/2	C	1			1	-			1	-			~	V	V			-	-	-	+
4	FS540212	C	1			V	+	+		1	-	H 10 11		1	~	V			+		+	+
ie i	NW T	- C	H		-	V	+	+		V	-	7.12.22		V	~	V			+		+	+
2	1 W S	C	H	-	-	1	+	+		1	-	$\geq$		V	Y	×	-		-+	-		+
4	ENE	C	+			1	-	+		V	1			1	Y	1	-		-+	-	-	+
0	EWS		+			Y	+	+		V	+		-	Y	V				+	-	+	+
		+				+	+	1											+	-	-	+
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errice. In no event shall of erfliates or successors and Relinquished B <u>Sui</u> M Relinquished B Delivered By	ing out of or related to the performance of services hereunder V: 7 · 12 · 2 Time: Date: Time: Clicals Open	ding witho	ut limit d, rega ecei	ved	By: By: Sam Coo	ple C	uptions ch clain	tion	f une, e	CHE		ofte incurred by c	ent, is subsidie sons or otherwis Phone Re Fax Resul	ins, e. suit: t: }:	I Ye	<u>s</u> <u>D</u> I	No	Add'i Fa	x #:	@etecl	ien	v.ci

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

Received by OCD: 10/20/2022 12:01:10 PM

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



### Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/18/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	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	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/18/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/18/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/18/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	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	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/18/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	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	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/18/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/18/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/18/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	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	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/18/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 42.5-16	1						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/18/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 42.5-16	1						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES

380

Page

101 East Marland, Hobbs, NM 88240

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

Company Name	: Etech Environmenta	al & Safety Solution	ns, Ir	IC.					ł	MLL	TO					A	NAL	YSIS	RE	QUE	ST		
Project Manage	r: Lance Crenshaw							P.O. 1	#:												T		
Address: 261	7 West Marland							Com	pany	1	Mewbo	ume											
City: Hobbs		State: NM Z	ip: 8	3240				Attn:		Robi	bie Rur	nels											
Phone #: (57	5) 264-9884	Fax #:						Addre	ess:	4801 B	usines	s Park Blvd											
Project #: 160	72	Project Owner:	M	ewbo	urne			City:			Hobbs												
Project Name:	Zircon 12/7 B2JK Fed Co	om 1H					-		• NA	Zip		88240		Ŵ	18)								
Project Location	n: Rural Eddy County,	NM				-		Phon		, mile		002.40	rid	015	802								
Sampler Name:	Matthew Grieco						-	Fax #				1	Chloride	TPH (8015M)	BTEX (8021B)								
FOR LAB USE ONLY		1	T	T	MA	TRI	_	-	RESER	V. S	AMPL	NG		TP	BT							1	
Lab I.D.	Sample I.I	D.	(G)RAB OR (C)OMP. # CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE:	ICE / COOL	OTHEK:	ATE	TIME											
1	FS 55 @ 1.5'		C 1		X				X	7/1	3/22		X	х	X								
2	FS 56 @ 2'		C 2		X				X	7/1	3/22		х	X	Х								
3	FS 57 @ 3'		C 3		X				X	7/1	4/22		X	X	X								
4	FS 58 @ 3'		C 4		X				X	7/1	4/22		X	х	X								
5	FS 59 @ 1.5'		C 5		X				X	7/1	3/22		х	Х	X					1		-	
6	FS 60 @ 3.5'		C 6		X				X	7/1	5/22		X	х	X								
7	FS 61 @ 3.5'		C 7		X	1			X	7/1	4/22		X	Х	Х		-						_
8	FS 62 @ 3.5'		C 8		X			+	X	7/1	5/22		Х	Х	X					_	-		
7	FS 63 @ 1'		C 9		X	-		-	X	7/1	5/22		Х	Х	X		_	-				_	
10	FS 64 @ 2' d Damages. Cardinal's liability and client		C 1(		X				X		5/22		Х	Х	X					_			
analyses. All claims lockadl service. In no event shall C efficies or successors and Relinquished By Relinquished By Delivered By:	ng these for negligence and any other can available liable for incidential or consequence and of or related to the performance of the second second second second second second (Circle One) 5.58	use whethoever that be dee control damages, including will sorvices hereumder by Carr Date: Time: 48 Date: Time: c $C-0.44$	med wai hout lim inal, reg Rece	ved unless telion, bue ardless of r ived B wed B Sa	made i inens in whether V: V: V:	to welli torrup <u>such</u>	ing and r fions, los claim is relation	ecolored I to of use, based up Add	by Cardin or lose o pon any o Day	ul within 30 I prolits inc	days alim surved by c e stated re	r completion of th Sent, its subsidied	e applicat ins, <u>e.</u> suit: t: }:	□ Ye	<u>s</u>	No A	Add'l Pi Add'l Fa	ax #:		echen	v.com.		
FORM-00 Revision	06	5.2c #7 † Card		1	No			al ch	12	s. Plea	ise fax	written c	hange	es to 5	75-393	-2476							-

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

380

Page

2

101 East Marland, Hobbs, NM 88240

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

Company Name	: Etech Environme	ntal & Safety Solut	-	, Inc							6	311	LTO	1.1.1					AN	ALYS	IS R	EQU	EST			
Project Manage	r: Lance Crenshaw								P.(	). #:								T	T	T	T	T		T		
Address: 26	7 West Marland								Co	mpa	any		Mewbo	ume												
City: Hobbs		State: NM	Zip	: 88	240				Att	n:		F	Robbie Run	nets												
Phone #: (57	5) 264-9884	Fax #:							Ad	dres	SS:	480	1 Business	s Park Blvd	1											
Project #: 16	072	Project Owner	r:	Me	wbo	oum	e		Cit	y:			Hobbs													
Project Name:	Zircon 12/7 B2JK Fed	Com 1H							Sta	nte:	NN	1	Zip:	88240		2W)	BTEX (8021B)				1					
Project Locatio	n: Rural Eddy Count	ty, NM							1	one					Chloride	TPH (8015M)	80									
Sampler Name	Matthew Grieco								Fa	x #:					Ē	H	EX I									
FOR LAB USE ONLY						M	ATR	IX		PRE	SER	RV.	SAMPL	ING	1	H F	BT									
Lab I.D.	Sample	I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SUL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
11	FS 67 @ 2'		С	1		2	X				X		7/15/22		X	X	X					-				
12	WW 6b		С	1		2	x				X		7/13/22	-	X	X	X				-	-	-	-	-	
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PLEASE NOTE: Liability	nd Damages. Cardinal's liability and	client's exclusive remedy for a	ny clair	m arisi	ng whet	ther ber	ed in c	contrac	t or tor	, shall	be limi	ited to	the amount pai	d by the client for	the		-	-	1	-	_	-	-		-	-
analyses. All claims Inclui	ing those for negligence and any oth Cardinal be liable for incidental or con	er cause wholeoever shall be	deeme	d walv	ed unle	es med	ie in wr	ting as	d recei	hed by	Cardin	nai vi	hin 30 days allo	r completion of t	he applica	able										
	ing out of or related to the performance in the sector in the sector is		Re	ceiv	ved I	By:	194 Jun	th coloring	is bas	nd apo	nt arriy d	រា ពិត			se. Isult:			No No		'l Phor 'l Fax #		_				
	: (Circle One) 5	Time:	-		S	Samp	Int						ED BY:	Please e	mailı	result	s and	l copy	of Co	oC to	pm@	etech	env.co	m.		

Page 16 of 16



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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/20/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	07/20/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/20/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	07/20/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/20/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose site to the services interruptors, loss of profits incurred by client, its subsidiaries, afflictes or successor arising out of or related to the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

# RDINAL LABORATORIES

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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

Company Name	: Etech Environmenta	al & Safety Soluti	ions,	Inc.							BI	LL TO	ANALYSIS REQUEST												
Project Manage	r: Lance Crenshaw							F	P.O. 1	k:							T	1		T					Τ
ddress: 261	7 West Marland							d	Com	Dany	y	Mewbo	ume	1											
ity: Hobbs		State: NM	Zip:	8824	10			-	Attn:		-	Robbie Rur	mels												
Phone #: (57	5) 264-9884	Fax #:						Address: 4801 Business Park Blvd									1								
Project #: 160	72	Project Owner		Mew	boun	ne		-	City:			Hobbs								1					
Project Name: Zircon 12/7 B2JK Fed Com 1H			-1	-		INA		88240		Ŵ	18														
	n: Rural Eddy County,			_		-		+	Phon			entr.	00240	Chloride	TPH (8015M)	BTEX (8021B)									
	Matthew Grieco							-1-	ax #	-	-			Ref.	H (8)	X									
FOR LAB USE ONLY				Т	1	MAT	RIX	- P	-	-	ERV.	SAMPL	NG		P	I E									
Lab I.D.	Sample I.	D.	(G)RAB OR (C)OMP	# CONTAINERS	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
	WW7		С	1		X			Т	X		7/18/22		X	X	X									
	FS 65 @ 4.5'		С	2		X				X		7/18/22		X	X	X									
	FS 66 @ 6.5'		С	3		X				X		7/18/22		X	X	X									
	FS 68 @ 3.5'		С	4		X				X		7/18/22		X	X	X									
	FS 70 @ 1'		С	5		X		1		X		7/18/22		х	X	X									
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listes or successors arisitelinguistied B	ng out of or related to the performance of	Date:	ardinal,	Ibrager	d By:	ether:	such clai	im is l	based u	on an	ny of the	above stated re	Phone Re	sult:			No		Phone Fax #					_	_
elinguished B	nm	Time: 503 Date:	Rec	Siceive	d By:	d	li	G	ju	l	r	8	Fax Resu REMARK		0.16			Aud	T dA T						
Delivered By	(Circle One) -0.8	Time:					Cond		n	СН	IECK	ED BY:	Please e	mail r	esult	s and	copy	of Co	C to p	om@e	teche	nv.con	n.		
	- Bus - Other:	1.40 7			Coo	Yes	Intact V	tes		-	(Initi	ials)													

Page 227 of 380

Revision 1.0



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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/22/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	07/22/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/22/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/22/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	07/22/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	1						
Surrogate: 1-Chlorooctadecane	81.6	% 42.5-16	1						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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 75 @ 2' (H223174-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	07/22/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/22/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	07/22/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	07/22/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	42.5-16	1						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/22/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Routine

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 13 of 13

<	ARD	NAL	LABO	DRAT	OR	IES
-	101	East	Marland.	Hobbs.	NM	88240

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

Company Name	: Etech Environmental & Salety Sol	utions, Inc.	BILL TO	ANALYSIS REQUEST	
Project Manage	r: Lance Crenshaw		P.O. #:		
Address: 261			Company Mewbourne	7	
City: Hobbs	State: NM	Zip: 88240	Attn: Robbie Runnels		
Phone #: (57	5) 264-9884 Fax #:		Attn: Robbie Runnels Address: 4801 Buincisfik Bli	Wd I I I I I I I I I I I I I I I I I I I	
Project #: ) b	072 Project Own	er: Robbie Russels	City: tobbs		
Project Name:	072 Project Own Ziscon 12/7 B2JK Fed n: Mewbourne Oil Comp. Eric Méjica	ComIH	State: NM Zip: 88240	Chloride TPH (8015M) BTEX (8021B)	
Project Location	n: Membeurge Oil Comp	S A N	Phone #:	Chloride Chloride ITEX (8021B)	
Sampler Name:	Eric Morica	J. J.	Fax #:	U I I I I I I I I I I I I I I I I I I I	
FOR LAB USE ONLY	0	MATRIX	PRESERV. SAMPLING		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER : ACID/BASE: ICE / 2004		
1	F569e2	C1 1	1 7.26.22		
2	FS710412	CIV	1		
3	FS7209	CIV			
4	FS73e2	CIV			-
5	FS 74031/2	CIV			-
9	FS 7502	CI V			+
4	FS7602	CIV			
à	FS 77e 51/2 FS 78e 51/2	C I I	IK		+
- 4	FS 100 3/2	C I V			
PLEASE NOTE: Liability as	d Damages. Cardinal's liability and client's exclusive remedy fo		ct or tort, shall be limited to the amount paid by the clien	ant for the	
enalyses. All claims includ service. In no event shall C	ing these for negligence and any other cause wheterever shall i	to decentral vertex veloce made in writing a	nd repaired by Cardinal with 30 days after completion , teek of use, or inter of profits incurred by client, its subs	n of the applicable	
Relinquished B	7-20-23	Received By:		Result:         I         Yes         No         Add'I Phone #:           esult:         I         Yes         No         Add'I Fax #:	
En Maz Relinquished B	v: Date: Time:	Received By:	Plases	e email results and copy of CoC to pm@etechenv.com.	
	: (Circle One) 4,9: C-0 - Bus - Other: 4.3 c	Cool intact	tion CHECKED BY:		

**Revision 1.0** 

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/25/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/25/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16							

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/25/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 43-149	)						
Surrogate: 1-Chlorooctadecane	110 9	42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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 %	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/25/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	07/25/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	42.5-16	1						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/25/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/25/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 43-149	)						
Surrogate: 1-Chlorooctadecane	110 9	42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/25/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/25/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

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

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose site to the services interruptors, loss of profits incurred by client, its subsidiaries, afflictes or successor arising out of or related to the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Routine

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 13 of 13

RD	INAL	LABO	DRA1	OR	IES
101	East I	Marland,	Hobbs	, NM	88240

Company Name		h Environmental & Safety Solutions, Inc.					BILL TO										AN	ALYS	IS F	REQU	JEST			
Project Manage	r: Lance Crenshaw							P.0	. #:								T			T	T			
Address: 261	7 W Marland							Cor	npa		lew	20.01	ne											
City: Hobbs	State: NM	Zip	: 882	240				Attr	R	obli	e R.		15											
Phone #: (57	5) 264-9884 Fax #:							Ade	Ires	.48	OI B.	Sile	1s spikalind											
Project #: 11	0.72 Project Ow	ner: R	11.	R		1		City	.11	2000	01.00	ALAC	s III . Mita										1	1 1
Project Name:	072 Project Om Zircon 12/782JK Fed	C	1000	H	UN/	lei	-					88	240		Ŵ	10								
Project i ocatio	n: Mewbourne Oil Compo	1 Jan	<u>n /</u>	11	_		-	Pho	-		Zip.	00	atu	1 S	015	802								
Sampler Name	Eric Mojich	04				-		Fax						Chloride	<b>FPH (8015M)</b>	<b>3TEX (8021B)</b>								1 1
FOR LAB USE ONLY	Crieriolien			-	MA	TRI	X	-	_	SERV	I S/	MPLI	NG	°	TP	E E								1 1
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WAS I EWALER SOIL	OIL	SLUDGE	OTHER ;	ACID/BASE:	ICE / <del>000L</del> OTHER :	D	ATE	TIME											
1	F58002	C			1	T				1	7.2	622		1	1	1							-	
2	FSBlez	С	ī		1	T			,	1	7.21			1	5	1	T						+-	
Dwe	FS 8 2 0 2	C	1		1					1		1		$\checkmark$	1	1								
	FS 8302	C	T		1				,	$\checkmark$				1	1	1								
5	FS 8405	С	1		1			1		1	/	1		V	$\checkmark$	1								
6	FS 8502	C	1		1				1	1				1	V	1								
7	F5 8602	C	1		1					1		1		1	1	11								
9789	FS87e2'	C	1		1				1	1		-		$\checkmark$	1	1							_	
9	F588-2	C	1		V				1	/		>		1	1	1								
10	WW8	C	1		1					1	1			1	1	1								
FASE NOTE: Liability an nalyses All claims includi	ad Demages. Cardinal's liability and client's exclusive remody ng these for negligence and any other cause whotsoever she	for any clair	n ariting d vanderer	g wheth d unloc	er base	d in co	ing and	or bort, : reformer	shall b al by C	e limited Condinal v	to the am	ount pair Ingo alla	I by the client for r completion of th	the te applicat	de									
Relinguished B	7-21-2	Re	ceiv	ed B	v:			dased			le above s		Phone Re Fax Resul REMARKS	t:	O Ye	is D	No No		1 Phon 1 Fax #					
Delivered By:	- Bus - Other: 5.3 c	0.6					nditik ict Yes	5en			(ED B' tials)		Please e	mail r	esults	s and	copy	of Co	oC to p	om@	etech	ienv.ci	om.	

Received by OCD: 10/20/2022 12:01:10 PM



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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/26/2022	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

## Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/26/2022	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

## Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	07/26/2022	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/26/2022	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	42.5-16	1						

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## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/27/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	07/27/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/27/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/27/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/27/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/27/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **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

#### **Cardinal Laboratories**

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240

Routine

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 13 of 13

Company Name: Etech Environmental & Safety Solutions, Inc.					-	BILL TO							-			AN	ALYS	IS F	REQU	JEST					
	r: Lance Crenshaw			-				P.0	0. #:	and had the state		and the				T	T	T	T	T	T	T	T		T
	17 W Marland							Co	mpa	ny /	M	ewbou	ICAP.												
City: Hobbs	State: NM	Zip	: 88	240	1			Att	n 8	11	-	R	15				1								
Phone #: (57								Attn: Robbie Runals Address: 4801 Business PikBlud																	
		er: R	11.		R.	1		Cit	. 1	1.1	L.C	11001110	-0/1100.00												
Project Name:	2 Project Own Zircon 12/7 B2 JK Fed	Con	11	H	1101	101	4	city: Hobbs State: NM Zip: 88240					Ŵ	18)											
Project Locatio	m. Marshaver Oil Com	- om		1.6				Phone #:				Chloride	015	802											
Project Location: Mewbourne Oil Company Sampler Name: Eric Moil co				-	x #:	w.				Pie	FPH (8015M)	3TEX (8021B)													
FOR LAB USE ONLY	2(10/10)(00	T			M	ATR	XIX	pr u	-	SER	v.	SAMPLI	NG		TP	BT									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SUL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL OTHER :		DATE	TIME												
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RS	FS 90e2	C	1		1	1				1		1		$\checkmark$	V	1									
3	FS91e2	C	1		1	1				1		/		1	1	1									
4	FS9202	C	1		1	1				1				1	1	1						_			
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analyses. All claims include	ing those for negligence and any other cause whatsoever shall b ardinal be liable for incidental or consequential damages, includ	a deemea	5 waive	ed unie	eus naed	ie in wa	nting an	d recei	ved by	Cardinal	f valit	hin 30 days aller	r completion of th	e applicai	No										
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Delivered By:	Time: : (Circle One) $-7 \ U^2_c$ $C - 0 - 1$ - Bus - Other: $7 \ D^2_c$ $\# 11$	3	_	1		Int es E	onditi tact Yes	8	<	(Ini	itia	ED BY: als)	Please e						C to p	om@	etech	env.co	m.		

**Revision 1.0** 

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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 07/27/22 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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	ed 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	07/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

## Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	07/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

## Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Routine

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

01 East Marland, Hobbs, NM 88240	2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476	(325) 673-7001 FAX (325)673-7020

Company Name	Etech Environmental & Safety Solut	ions										a	R.	10							A	NA	LYS	IS F	REQ	UE	ST				
Project Manage	r: Lance Crenshaw									0.1									T	T	T	-		T	T			T	T		
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Phone #: (575)	) 264-9884 Fax #:								A	idre		48	10	Busines	rs P	tBld															
Project #: 16		r: R	lob	bie	R	Van	els			ty:								Î		n											
Project Name:	Zircon 12/7 827 K Fe	9 (	n	n	14	[			St	ate:	N	M	Zi	p: 88	240		de l	15	1	V											
Project Location	n: Mewbourne Oil Comp	an	ų							non							Chloride	(8015M)		(8021B											
Sampler Name:	Eric Mojica		3						Fa	x #							Ĕ														
FOR LAB USE ONLY	0		Г	F	-	MA	TRU	(	_	PR	ESE	ERV	1	SAMPLI	NG		0	TPH	11	Ĕ											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OM	TAIN	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :		DATE	Т	IME		F	Ċ	מ											
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atiliates or successors arising out of or related to the performance	e of services hereunder by C	ardinal, regardless of whether such claim is bei	ed upon any of the above stated re	esons or otherwise.				
Relinguished By:	Date:	Received By:	Doli	Phone Result:	□ Yes	2 No	Add'l Phone #:	
0	7-26.22		11/11/	Fax Result:	1 Yes	Z No	Add'I Fax #:	
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Sampler - UPS - Bus - Other:	- 4.9°	#113 Pres Pres	A					
A Cardinal access access worked	abangaa Diagaa	for written shannes to FOF	202 2470					

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Received by OCD: 10/20/2022 12:01:10 PM



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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

## Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/01/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	<i>93.7</i>	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/01/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	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 9	42.5-16	1						

## Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/01/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	42.5-16	1						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/01/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	42.5-16	1						

# Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

A		
AF	RDINAL LABORATORIES	
	101 East Marland, Hobbs, NM 88240	

Routine

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company News	_		FAX (575) 393- mental & Safety So		Inc				T		-	-	11.1	TO				-			IVO	0.0	FOI	IEO	*		_
Company Name:				nucions	, IIIC	ø.			-	P.O.		DI	ILL	10			-	-	-	ANA	LYSI	SR	EQI	UES	-		
Project Manager	W Mai		Frenchaw						-			-	1	T													
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City: Hobbs			State: NM	Zip	: 88	240									nels	. 1										- 1	
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Project Name: Z			7 Bajk J	ed	(0,	n	IH_			Stat	e: /	VM	Zip:	8	8240	ę	TPH (8015M)	BTEX (8021B)									
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FOR LAB USE ONLY		0					MA	TRI	X	F	RES	SERV	S	AMPLI	NG		F	0									
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PLEASE NOTE: Liability an		Cardinal's liability	and client's exclusive remedy	for any clai															-	1	1	-	-		-	-	
ervice. In no event shall Ca	ardiani be lint	le for incidental o	y other cause whatsoever shall or consequental damages, inch	ding witho	ut limit	ution, b	usinees i	nierrug	dons, lo	es of u	se, or i	tous of p	profilts inc	arred by o	dent, its subsidie		ble										
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Sampler - UPS			5.92) C. 5.3c	-0.4					Yes	-		(Ini	itials)	-													

Received by OCD: 10/20/2022 12:01:10 PM

Page 292 of 380



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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/03/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2022	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	1						
Surrogate: 1-Chlorooctadecane	100	% 42.5-16	1						

# Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/03/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2022	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 9	% 43-149	1						
Surrogate: 1-Chlorooctadecane	119 9	42.5-16	1						

# **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/03/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2022	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	% 42.5-16	1						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/03/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2022	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	% 42.5-16	1						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/03/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2022	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 9	% 43-149	)						
Surrogate: 1-Chlorooctadecane	104 9	% 42.5-16	1						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/03/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2022	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	1						
Surrogate: 1-Chlorooctadecane	102 9	42.5-16	1						

# Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/03/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2022	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 9	% 43-149	1						
Surrogate: 1-Chlorooctadecane	110 9	42.5-16	1						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/03/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2022	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 9	% 43-149	1						
Surrogate: 1-Chlorooctadecane	104 9	42.5-16	1						

# **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/03/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2022	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	% 42.5-16	1						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/03/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2022	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 9	% 43-149	)						
Surrogate: 1-Chlorooctadecane	111 9	42.5-16	1						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

E **RDINAL LABORATORIES** 101 East Marland, Hobbs, NM 88240

# Routine

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 13 of 13

Lance Creashaw N Marland State: 1		P.O. #: Company Meubo				1	TT	T	TT		
V Marland State: /		Company M 1	and the second se				1 1	1		1	1 1
		company lewbo	vrne								
and the second state of th		Attn: Rehles Russ	els								1 1
64-9884 Fax #:		Address: 4801 Busi	e-JPrkBlin								1 1
2 Project	Owner: Robbie Runnels	City: Hobbs			-						
rcon12/7B2JKF	ed Com IH	State: NM Zip: 81	1240 :	5M	218						
Newbourne Oil Ca	pany	Phone #:	oric	801	(80						
ric Mojica	1 5	Fax #:		H	EX						
5	MATRI	X PRESERV. SAMPL	ING	F	â						
Sample I.D.	(G)RAB OR (C)O # CONTAINERS GROUNDWATEF WASTEWATER SOIL	SLUDGE OTHER : ACID/BASE: OTHER : OTHER :	TIME								
S 11101	CIV	1 7.28.2		V	1						
Sildel	CIV	1	1	1	1						
	CIV	1		1	1						
			V	~	V				+		+ -
VIJ			V		V				+ +	-+	+ 1
V 110 V		1X	V /	×	Y	+	+		+ +		+
S 118e1			1 J	1	1	-			++	-	+
5 119e1	CIV		V	1	1						
5 120el'	CII V	1 7.29.2	V	1	1						
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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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/04/2022	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

# Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/04/2022	ND	448	112	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/04/2022	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/04/2022	ND	448	112	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/04/2022	ND	448	112	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	1						
Surrogate: 1-Chlorooctadecane	86.4	% 42.5-16	1						

# Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/04/2022	ND	448	112	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	1						
Surrogate: 1-Chlorooctadecane	92.3	% 42.5-16	1						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/04/2022	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/04/2022	ND	448	112	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/04/2022	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	08/04/2022	ND	448	112	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **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

#### **Cardinal Laboratories**

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Routine

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 13 of 13

Company Name	: Etec	h Environmen	AX (575) 393-24 tal & Safety Solut	-	, Inc								8/1	LTO					ANALY	SIS RE	QUEST	r	
Project Manage	r: Lar	Le Cren	shaw								0. 1												
Address: 261	7 W Mar	land								C	omp	any	Me	nicolus	e								
City: Hobbs			State: NM	Zip	88	240				A	tn:	Rol	bbie	Runne	15								
	5) 264-98		Fax #:	_						A	idre	<b>SS</b> :	480	Busines	CKB1.1.								
Project #:         Project Name:Z	172		Project Owner	- R	obbi	el	lung	15		Ci	ty: /	40	665					-					
Project Name:Z	incon	12/7 B2J	ik Fed Can	1	H	_				St	ate:	N	M	Zip: 88;	240	e	TPH (8015M)	BTEX (8021B)					
Project Location Sampler Name:	n: Mew	bourne (	)il Compan	+						PI	non	#:				Chloride	801	(80					
Sampler Name:	Eric	Mojica	1	/	_	_	_			Fa	x #:					Ch	H	Ĕ					
FOR LAB USE ONLY		J					N	LATE	XIX	1	PR	ESE	RV.	SAMPLI	NG		F	6					
Lab I.D.		Sample I	.D.	G)RAB OR (C)OMP	CONTAINERS	GROUNDWATER	MASTEWATER	SOIL	SUIDEE	OTHER :	ACID/BASE:	CE / <del>000L</del>	OTHER :	DATE	TIME								
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6	FS	12601		C	1			1	-	-		V				~	~	1	++				$\vdash$
7	FS -	12704		C	1	-		1	-	+	⊢	1				1	~	1		-			
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ID I	23	13001		C	1	-	-	J	+	+	+	V				1	V	7	+ +				
LEASE NOTE: Linbilly an	d Damages. C	Cardinal's liability and cli	ent's exclusive remedy for a	ty clein	n arisin	g whe	ther be	sed in	contra	ct or to	rt, shal	be fir	milled to	the amount paid	by the client for t	he	V						
nalyses. All claims includin arvice in no event shall Co	ng those for na antinai be Babi	gigence and any other a for incidental or conse	cause whilecever shall be questial damages, including	without	t limite	d unk den, k		de in v inter	uplions	, love o	dred b	or loss	a of prai	his appared by cl	completion of its	e applical III.,	200						
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Received by OCD: 10/20/2022 12:01:10 PM

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

**Revision 1.0** 



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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



# Analytical Results For:

Etech Environmental & Safety Solutions 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2022	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	97.7	% 43-149	)						
Surrogate: 1-Chlorooctadecane	96.1	% 42.5-16	1						

# Sample ID: SW 3 A (H223472-02)

TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2022	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					
Surrogate: 1-Chlorooctane	80.9	% 43-149	)						
Surrogate: 1-Chlorooctadecane	78.7	% 42.5-16	1						

# Sample ID: FS 91 @ 3' (H223472-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/05/2022	ND	416	104	400	3.77	

# Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	08/05/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 42.5-16	1						

# Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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 9	% 43-149	)						
Surrogate: 1-Chlorooctadecane	99.8	% 42.5-16	1						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# 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	Analyze	d 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 9	69.9-14	)						
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	08/05/2022	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	% 42.5-16	1						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/05/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/05/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 43-149	1						
Surrogate: 1-Chlorooctadecane	87.1 9	42.5-16	1						

## Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/05/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	1						
Surrogate: 1-Chlorooctadecane	98.6	% 42.5-16	1						

## Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **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

#### **Cardinal Laboratories**

## \*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Routine **RDINAL LABORATORIES** 101 East Marland, Hobbs, NM 88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<mark>Раде 11 оf 11</mark>

ompany Name:	575) 393-2326 FAX (575) 39 Etech Environmental & Safety S		Inc.				T		B	ILL TO	1	-			ANAL	YSIS F	REQUE	ST	
Address: 2617 W Marland					P.	0.1	And Address of the owner.		to de de la composition de la	1					T	TT			
					C	Company Mewbourne Attn: Robbie Runnels Address: 474 Burines PikBled													
					A					1									
hone #: (575) 2	64-9884 Fax #:						A	ddre	ess: 4)	101 Busins	5 PrkBled								
roject #: \ 60'	72 Project ON rcon 12/782JK Fed 1ewbourne Oil Comp	mer: Ro	bbi	e R	una	: 6	C	ity:	H.6	55 Zip: 81				-					
roject Name: Z:	con 12/782JK Fed	Coml	H				SI	tate:	NM	Zip: 8	8240	e	5M	218					
roject Location: /	lewbourne Oil Comp	214					P	Phone #: Fax #:				Chloride	(801	(80					
ampler Name: E	ric Mojica				-	_	Fa					5	TPH (8015M)	BTEX (8021B)					
FOR LAB USE ONLY	0	0		-	MAT	RIX		PR	ESER	SAMP	LING		F	ion I					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER	SOIL	OIL	SLUDGE OTHER :	ACID/BASE:	ICE / COOL	-									
11	INGA	C	1	-	V		-	-	1	8.2.2.		-	V		_			+++	
2	W3A Saloz	C	1		4			+	V	822		+	V					+-+	
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GE	5)3206	C	it	1	1		+	t	1	8.3.2		V	V	J					
- F	5133=4	C	il		V			1	V	8.3.2		V	V	1					
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NF	513602	C	11	1	V				V	8-2-2:		1	1	V					
EASIE NOTE: Liability and Da Ayros. All claims including the rice. In so event shall Cardina	mages. Caromar's asseny and clears exclusive remed to far negligence and any other cause whetsoever sh if be liable for incidental or consequental damages, in		naived	uniess	made in	writing						r we he applica vias	ble						
elinquished By:	t of or related to the performance of services hereunder <b>Bate:</b> <b>9-3-2:</b> Time: 1555	Rec	eive	B	v: Dra	auch cle	1	Val	and any of t	the above states	Phone Re Fax Resu REMARK	esult: ilt:	O Ye			Phone #: Fax #:			
elinquished By.	Circle One) 12 C 2	Rec	eive	d B			dition			KED BY:	Please e	email r	esults	and co	py of CoC	to pm@	etecher)	nv.com.	



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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	08/09/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

## Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/09/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/09/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

## Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

-		
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	ARDINAL LABORATOR	ES
	101 East Marland, Hobbs, NM	88240

Routine

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 6 of 6

(575) 393-2326 FAX (575) 39 Company Name: Etech Environmental & Safety S		, Inc	<b>.</b>				3		BI	LL TO					ANA	LYSI	S RE	QUE	ST		
Project Manager: Lance Crenshaw							P.0	. #:	-							T				Т	
Address: 2617 W Marland						Company Mewbour			ne												
City: Hobbs State: NM	Zip	: 88	240				Attn	Re	660	ie Run	nels										
Phone #: (575) 264-9884 Fax #:							Add	ress	:48	Ol Burine	us Pik Blu										
Project #: 16072 Project Ov	mer: R	obb	ie	Run	ne	1.	City	: H .	obb	3				-							
Project Name: Zircon 12/7 B2JKF	ed Com 1H				Stat	te: N	M	Zip: 88	240	e	TPH (8015M)	21B									
Project #: 16072 Project ON Project Name: Zircon 12/7 B2JK F Project Location: Mew bourne Oil C	mph	ny	1				Pho	ne #			]	Chloride	(801	BTEX (8021B)							
Sampler Name: Eric Mojica	-	-			_		Fax	#:	_		-	ch	Hd	TEX							
FOR LAB USE ONLY				MA	TRIX		1	PRES	ERV.	SAMPLI	NG		F	0							
Lab I.D. Sample I.D. $1 \\ W W I 0$ $2 \\ F S \\ 7 \\ 3 \\ F S \\ 3 \\ 8 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9$	C C C COMP		GROUNDWATER	< < Soil	OIL	SLUDGE	OTHER :		OTHER :	DATE 8:4:22	TIME	4 4 4	>>>	× ×							
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remed naitysee, All claims including those for negligence and any other cause whatboower the envice. In no event shall Cardinal be liable for incidental or consequential damages, in filinese or successors arising out of or related to the performance of services hereauch Relinquished By: Date: Date:	II be deemer hading willow r by Cardinal Re 3	i veniv i limite celv	id unlea dien, bu		in welle terrupli	ig and i ions, los	nocelve up of u	el by Ca aa, or la	nedicaal w	nition 30 days after after incurred by cl a above stated rea	r completion of th leat, its subsidiari	o applicat les, o. stalt: t:	le Q Ye			I Phone I Fax #:	#:				

Received by OCD: 10/20/2022 12:01:10 PM

Released to Imaging: 1/18/2023 4:19:58 PM



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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/15/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

## Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	ed 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/15/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/15/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	1						
Surrogate: 1-Chlorooctadecane	103	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/15/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/15/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

## Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/15/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/15/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/15/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

## Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/15/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

## Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/15/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

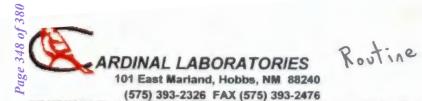
Samples reported on an as received basis (wet) unless otherwise noted on report

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 13 of 13

<b>Company Name</b>	: Etech Environment	tal & Safety Solu	tions,	Inc.						BIL	LTO		2				ANA	LYSI	S RE	QUES	ST	
Project Manage	E Lance Creash	16W						P.O.									1					
	7 W Marland							Com	ралу	Me	enpour	AR	1									
City: Hobbs		State: NM	Zip:	8824	40			Attn	Rob	bie	Runne	ls	1									
Phone #: (575	5) 264-9884	Fax #:										. Piktlud	1									
Project #: ) b(	372	Project Owne	r.R.J	bie	Rua	a els			H-1				1									
Project Name: 2	372 Eircen 12/782	JK Fed Co	~ 1	H	1.4/1	n vl.		Stat	NI	4	Tip: 884	40	1.	(WS	18)							
Project Location	: Mewhavere 0	1 6.000		11					ne #:			1	Chioride	TPH (8015M)	BTEX (8021B)							
Sampler Name:	Erie Majica	apar	3					Fax	<b>i</b> :				Ť	H	EX							
FOR LAB USE ONLY			Π	T		MATE	RIX	-	RESE	RV.	SAMPL	ING	1	1 d	BTI							
Lab 1.D.	Sample I.	.D.	(G)RAB OR (C)OMP	# CONTAINERS	WASTEWATER	SolL	SLUDGE	OTHER :	ICE / COOL	OTHER :	DATE	TIME										
1	NW8		C	1		1			V		8-10-22		V	V	V							
2	EW 10		C	1	_	1			V		1		V	1	V						_	_
3	EWII		C	1		V	_		1		-		V	1	V						_	_
4	FS13902		C	1	-	V	_		1		/		V	1	1		-	-				_
5	FS14002		C	11	-	1			V	_	>		1	11	1	-	-	-				-
6	FS 14/e4		C	4	-	1		-	1	-	<		1	1	1	-	-	-				
3	FS 142e5		C	1		1			1	-	>		1	V	1	-	-	-			-+	-
8	FS14302		C	11	-	V		-	1	K			V	V	V	-	-	-				-
9	121112		C	1		1			1	-	>		V	V	V	-	+	-				
LEASE NOTE: Linbility and	FS 145e3	m's exclusive remedy for a	C	achine a	advertiser b	VI	contract	w hust al	V	L	and and and	d by the client fo	V	11	V		1	1	-		1	-
	g these for negligence and any other of related by fields for incidential or cousies g out of or related to the performance.	cause wheleoover shall be questal demoges, including	deemed y without archinal, c Rec Rec	imitation regardie	d By: d By: d By: Sam	nade in w me intern eliter su	viliag and uptions, is ch claim is dh clai	necesheed ness of uso <u>a bested o</u>	i by Cardi a, or loss - apon any JD	of profil of the c	is incurred by c		nies, ise. escult: it: S:	O Ye	s 🖸	No	Add'l	Phone Fax #: C to pr		echenv	/.com.	



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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/16/2022	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

## Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/16/2022	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2022	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	% 42.5-16	1						

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## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/16/2022	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2022	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	% 42.5-16	1						

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## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/16/2022	ND	432	108	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2022	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 9	% 43-149	)						
Surrogate: 1-Chlorooctadecane	108 9	% 42.5-16	1						

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## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## 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: WW 12 (H223696-05)

BTEX 8021B	mg,	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	'kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/16/2022	ND	432	108	400	7.69	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2022	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	1						
Surrogate: 1-Chlorooctadecane	108	42.5-16	1						

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## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## 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 146 @ 4.5' (H223696-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/16/2022	ND	432	108	400	7.69	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2022	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 9	42.5-16	1						

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## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/16/2022	ND	432	108	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2022	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 9	% 43-149	)						
Surrogate: 1-Chlorooctadecane	98.4 9	42.5-16	1						

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## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	08/16/2022	ND	432	108	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2022	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	% 42.5-16	1						

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## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/16/2022	ND	432	108	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2022	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	% 42.5-16	1						

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## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## 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	Analyze	d 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 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/16/2022	ND	432	108	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2022	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 9	42.5-16	1						

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## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit	
RPD	Relative Percent Difference	
**	Samples not received at proper temperature of 6°C or below.	
***	Insufficient time to reach temperature.	
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C	

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

#### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Routine

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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ARDI	NAL	LABO	DRAT	OR	ES
101	East	Marland,	Hobbs,	NM	88240

of 380

Page 361

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

Company Name: Etech Environmental & Safety So	lutions, Inc.	BILL TO	ANALYSIS REQUEST
Project Manager: Lance Creashow		P.O. #:	
Address: 2617 W Marland		Company Mewbourne	
City: Hobbs State: NM	Zip: 88240	Attn: Robbie Runels	
Phone #: (575) 264-9884 Fax #:		Address: 4801 Burnevel, KBlud	
Project #: 1672 Project Own	ner: Robbie Russels	city: Hobbs	
Project Name: Ziceon 12/7 R2 JK Fed Co	a IH	State: NM Zip: 88240	52W)
Phone #: (575) 264-9884 Fax #: Project #: 16072 Project Own Project Name: Z: rccn 2/7 82 JK Fed Co. Project Location: Mewbourne 0:1 Communications Sampler Name: Eric Mojica		Phone #:	Chioride TPH (8015M) BTEX (8021B)
Sampler Name: Eric Mours	J	Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D. Hzz. 3696	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER : ACID/BASE: ICE / COOL- OTHER :	
INW9	CIV	1 8-12-22 8-12-22	2 / / /
ZSWY	CIV	1 8.1.22	V V V
3 S N 5	CIV	III	
4 WWI	CIV	1	
SWW 12	CI V	1 8.12.22	
G FS 1460 41/2 7 FS 14705	CIV	V 8-11-22	
8 FS 14802	CI V	V 8-11-22 V 8-11-22	
9 FS 14903	CII V	V 8.1.22	
0 FS 150031/2	C I II	1 8-12-22	
LEASE NOTE: Linking and Damages. Cardina's Inbilly and client's exclusive remody f	or any claim arising whether based in covera		ar Bue
matyses. All claims including linese for negligence and any other cause wheteoever shall service. In no event shall Cardinal be liable for incidential or consequential damages, inclu	ding without limitation, beaksnot interruption	, less of use, or loss of profils incurred by client, its subsidia	
Relinquished By: Date: Relinquished By: Date: 8-/2-2- Time: 507 Relinquished By: Date:		Adatty Phone Re Eax Result REMARKS	ult: 🛛 Yes 🗋 No Add'I Fax #:
Delivered By: (Circle One) 5.6 C-0 Sampler - UPS - Bus - Other: 5.0 C		tion CHECKED BY:	email results and copy of CoC to pm@etechenv.com.
FORM-006 1 ( Revision 1.0	Cardinal cannot accept v	erbal changes. Please fax written o	changes to 575-393-2476



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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



#### Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	08/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	1						
Surrogate: 1-Chlorooctadecane	103 9	42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	1						
Surrogate: 1-Chlorooctadecane	102 9	42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received:	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	Analyze	d 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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	08/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received:	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	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 42.5-16	1						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Routine

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 10 of 10

ARDI	NA	LLAB	ORAT	OR	IES
101	East	Mariand	I, Hobbs	, NM	88240
(5	75) 3	93-2326	FAX (57	(5) 39	3-2476

	TO ANALYSIS REQUEST
ect Manager: Lance Crunshaw P.O. #:	
ress: 2617 W Marland Company Men	bourne
Hobbs State: NM Zip: 88240 Attn: Robbie	Runali
ne #: (5/5) 264-9884 Fax #: Address: 4/(1) 8.	in cas PikBlud
ect #: 16072 Project Owner: Robbie Rundr City: Hobbs ect Name: Zircon 12/7 B2JK Fed Con 14 State: NM Zip:	
ect Name: Zircon 12/7 B2JK Fed Con 14 State: NM Zip:	58240 ge 04288
ect Location: Mewbourne Oil Campany Phone #:	EX (8015N H (8015N
pler Name: Eric Mojics Fax #:	
	UMPLING F as
	642 1 1 1
ZWWJ3 CI V V	
JSW6 4FSI5Iel CIVVV	
5 FS 15202 CI V V	
GESISHEI CIIVV	
7 FS 155041/2 CI V	
E NOTE: Liability and Damages, Cardinal's liability and clearl's exclusive remedy for any claim skilling whether based in contract or tort, shall be limited to line an	curt add by the client for the
c. All clinims including those for negligence and any other cause whatsoover shall be downed weived unless made in writing and received by Cardinal within 30 in no event shall Cardinal be flable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profile incidental or consequental damages.	days after completion of the applicable reed by client, its submittaries,
s or suscements arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is bested upon any of the above nouished By: Date: Received By:	Phone Result: Ves No Add'I Phone #:
)- m - Brild-22 Augura Malalan	Pax Result: Q Yes Q No Add'I Fax #: REMARKS:
nauished By: Date: Received By:	
Time:	
	Please email results and copy of CoC to pm@etechenv.com.
Ivered By: (Circle One) 5.6° C-0.6° Sample Condition CHECKED B Ipler - UPS - Bus - Other: 50 0 Hulz Pres Pres	

# Appendix E Regulatory Correspondence

From:	Hamlet, Robert, EMNRD
То:	Lance Crenshaw
Cc:	<u>Nobui, Jennifer, EMNRD; Ben Arguijo; Connor Walker; Robbie Runnels; Harimon, Jocelyn, EMNRD; Bratcher, Mike, EMNRD; Matthew A. Grieco</u>
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@etechenv.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@etechenv.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@etechenv.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

Total Control Panel		Login
To: bena@etechenv.com	Message Score: 20	High (60): Pass
From:	My Spam Blocking Level: High	Medium (75): Pass
robert.hamlet@state.nm.us		Low (90): Pass
	Block this sender	
	Block state.nm.us	

This message was delivered because the content filter score did not exceed your filter level.

From:	Lance Crenshaw
То:	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 (<u>lance@etechenv.com</u>

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

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Dear NMOCD Environmental Bureau,

Mewbourne Oil Company (Mewbourne) 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		Login
To: <u>bena@etechenv.com</u> From: robert.hamlet@state.nm.us	Message Score: 57 My Spam Blocking Level: High	High (60): Pass Medium (75): Pass Low (90): Pass
	Block this sender Block state.nm.us	

This message was delivered because the content filter score did not exceed your filter level.

From:	Hamlet, Robert, EMNRD	
То:	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 pARD2215252060

Subject: [EXTERNAL] Extension Request for nAPP2215352060

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Dear NMOCD Environmental Bureau,

Mewbourne Oil Company (Mewbourne) 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

Total Control Panel			<u>Logir</u>
To: <u>bena@etechenv.com</u>	Message Score: 57	High (60): Pass	
From:	My Spam Blocking Level: High	Medium (75): Pass	
robert.hamlet@emnrd.nm.gov		Low (90): Pass	
	Block this sender		
	Block emnrd.nm.gov		

This message was delivered because the content filter score did not exceed your filter level.

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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

District III

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

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

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

CONDITIONS

	OGRID:
MEWBOURNE OIL CO	14744
	Action Number:
Hobbs, NM 88241	152337
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

#### Created By Condition Condition Date 1/18/2023 jharimon None

CONDITIONS

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Action 152337