Received by OCD: 10/20/2022 12:23:49 PM Form C-141 State of New Mexico

Oil Conservation Division

	I uge I oj I
Incident ID	nAPP2218929337
District RP	
Facility ID	
Application ID	

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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 not 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

Page 3

- Data table of soil contaminant concentration data
- \checkmark Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- \checkmark 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 op public health or the failed to adequate addition, OCD ac and/or regulations Printed Name: Signature: email: _Cwalker	hat the information given above is true and complete to the erators are required to report and/or file certain release noti the environment. The acceptance of a C-141 report by the C ely investigate and remediate contamination that pose a three treeptance of a C-141 report does not relieve the operator of s. Connor Walker	fications and perform co DCD does not relieve the eat to groundwater, surfa	prrective actions for relea operator of liability sho ce water, human health iance with any other fee	ases which may endanger ould their operations have or the environment. In
OCD Only Received by:	Jocelyn Harimon	Date: 10/2	20/2022	

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Oil Conservation Division

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Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Connor Walker Title: Sr. Engineer Signature: _____ Date: _____ Date: _____ 10/20/2022 email: cwalker@mewbourne.com Telephone: (806)202-5281 **OCD Only** Received by: Jocelyn Harimon Date: 10/20/2022 Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Date: 01/19/2023 Closure Approved by: ____ Printed Name: Jocelyn Harimon Title: Environmental Specialist

Remediation Summary & Soil Closure Request

Mewbourne Oil Company Zircon 12-7 GF SWD Line

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

Prepared By:

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

en J. Arguijo

Lance Crenshaw



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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- Appendix B Field Data & Soil Profile Logs
- Appendix C Photographic Log
- Appendix D Laboratory Analytical Reports

1.0 PROJECT INFORMATION

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

	Locatio	on of Release Sou	rce							
Latitude:	Latitude: 32.6762830 Longitude: -104.029918									
Provided GPS are in WGS84 format.										
Site Name: Zircon 12-7 GF SWD Line Site Type: Pipeline										
Date Release Discovere	Date Release Discovered: $6/23/2022$ API # (if applicable):N/A									
	ction Township	Range	County							
"F"	12 198	29E	Eddy							
Surface Owner: X Sta	ate Federal Tribal	Private (Name)							
	Nature a	nd Volume of Ro	elease							
Crude Oil	Volume Released (bbls)		Volume Recovered (bbls)							
X Produced Water	Volume Released (bbls)	186	Volume Recovered (bbls) 0							
	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.									
Initial Response										
X Release materials h	nave been contained via the use	of berms or dikes, abs	orbent pad, or other containment devices							
X All free liquids and	l recoverable materials have be	en removed and manag								

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

2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a halfmile radius of the Zircon 12-7 GF SWD Line release site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	12	5'
Did the release impact groundwater or surface water?	Yes	X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes	X No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark?	Yes	X No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	Yes	X No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes	X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes	X No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes	X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes	X No
Are the lateral extents of the release overlying a subsurface mine?	Yes	X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	X Yes	No
Are the lateral extents of the release within a 100-year floodplain?	Yes	X No
Did the release impact areas not on an exploration, development, production or storage site?	X Yes	No

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Zircon 12-7 GF 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 **REMEDIATION ACTIVITIES SUMMARY**

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

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

On August 26, 2022, Etech collected four (4) confirmation soil samples (FL 11 @ 2', FL 12 @ 1.5', FL 13 @ 1', and FL 17 @ 6") from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 80.0 mg/kg in soil sample FL 11 @ 2' to 528 mg/kg in soil sample FL 17 @ 6".

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

On August 31, 2022, Etech collected four (4) confirmation soil samples (FL 24 @ 5' through FL 27 @ 2') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 80.0 mg/kg in soil sample FL 27 @ 2' to 384 mg/kg in soil sample FL 24 @ 5'.

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

On September 2, 2022, Etech collected seven (7) confirmation soil samples (FL 39 @ 6" through FL 45 @ 6") from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil sample FL 44 @ 6" to 144 mg/kg in soil sample FL 39 @ 6".

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

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

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

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

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

Soil sample locations and the extent of the excavated area are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Field data and soil profile logs are provided in Appendix B. General photographs of the site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D.

5.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected area was compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

6.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate in-situ concentrations of BTEX, TPH, and chloride are below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

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

7.0 LIMITATIONS

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

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

8.0 **DISTRIBUTION**

Mewbourne Oil Company

4801 Business Park Blvd. Hobbs, NM 88240

New Mexico Energy, Minerals and Natural Resources Department

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

(Electronic Submission)

Figure 1 Topographic Map



Figure 2 Site Characterization Map



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Figure 3 Site & Sample Location Map



Legend

- Excavation Extent
- Composite Floor Sample Π
- •• Composite Wall Sample

Figure 3 Site & Sample Location Map Mewbourne Oil Company Zircon 12-7 GF SWD Line GPS: 32.676283, -104.029918 Eddy County



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

Drafted: bja

Checked: jwl

Date: 10/11/22

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Table 1Concentrations of BTEX, TPH & Chloride in Soil

	Table 1										
Concentrations of BTEX, TPH & Chloride in Soil											
					wbourne (-	•				
					on 12-7 G						
NMC	NMOCD Ref. #: nAPP2218929337 NMOCD Closure Criteria 10 50 N/A N/A N/A 100 600										
	OCD Closure C O Reclamation						N/A				
NNIOCI	Keciamation	Stanuaru		10 SW 84	50 6 8021B	N/A	N/A	N/A 7 846 8015M	N/A	100	600 4500 Cl
		Donth	Soil	5 11 04	0 00210			GRO +			4300 CI
Sample ID	Date	Depth (Feet)	Son	Benzene	BTEX	GRO C6-C10	DRO C ₁₀ -C ₂₈	DRO	ORO C ₂₈ -C ₃₆	ТРН С ₆ -С ₃₆	Chloride
				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	C ₆ -C ₂₈ (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NW1	8/25/2022	0-0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
NW2	9/1/2022	0.5-0.45	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
NW3	9/1/2022	0-0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW4	9/1/2022	0-0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
NW5	9/1/2022	0-1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
EW1	9/1/2022	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
EW2	9/6/2022	0-1.5	Excavated	< 0.050	< 0.300	<10.0	310	310	116	426	112
EW2A	9/12/2022	0-1.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
SW1	9/8/2022	0-1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW2	9/8/2022	0-1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW3	9/8/2022	0-0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
SW4	9/8/2022	0-0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
WW1	8/25/2022	0-1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
WW2	9/1/2022	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
WW3	9/1/2022	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
WW4	9/8/2022	0-1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 1 @ 6"	8/25/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 2 @ 6"	8/25/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 3 @ 6"	8/25/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 4 @ 6"	8/25/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 5 @ 6"	8/25/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 6 @ 6"	8/25/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 7 @ 6"	8/25/2022			< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL 8 @ 6"	8/25/2022		In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 9 @ 6"	8/25/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 10 @ 6"	8/25/2022	0.5	In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 11 @ 2'	8/26/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 12 @ 1.5'	8/26/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 13 @ 1'	8/26/2022		In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 14 @ 2'	8/30/2022		In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 15 @ 2.5'	8/30/2022	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 16 @ 2'	8/30/2022		In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 17 @ 6"	8/26/2022	0.5	In-Situ 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	528 352
FL 18 @ 2' FL 19 @ 6"	8/30/2022 8/30/2022	2 0.5	In-Situ In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 19 @ 0 FL 20 @ 3.5'	8/30/2022	3.5	In-Situ In-Situ	<0.030	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 20 @ 3.3 FL 21 @ 2.5'	8/30/2022	2.5	In-Situ In-Situ	<0.030	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 21 @ 2.5 FL 22 @ 2'	8/30/2022	2.3	In-Situ In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 22 @ 2 FL 23 @ 5'	8/30/2022	5	In-Situ In-Situ	<0.030	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FL 23 @ 5 FL 24 @ 5'	8/31/2022	5	In-Situ In-Situ	<0.030	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 24 @ 3 FL 25 @ 2'	8/31/2022		In-Situ In-Situ	<0.030	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
$1^{\circ}L 23 (W) 2^{\circ}$	0/31/2022	2	111-5170	~0.030	~0.300	<i>∼</i> 10.0	<u>\10.0</u>	~20.0	<u>\10.0</u>	<u>∖</u> 30.0	90.0

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

Red: NMOCD Reclamation Standard exceedance. Released to Imaging: 1/19/2023 1:55:23 PM

Table 1 Concentrations of BTEX, TPH & Chloride in Soil											
Mewbourne Oil Company											
				Zirc	on 12-7 G	F SWD L	ine				
				NMOCI	D Ref. #: n	APP2218	929337				
NMO	NMOCD Closure Criteria 10 50 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
Samuela ID	Dete	Depth	Soil			GRO	DRO	GRO +	ORO	ТРН	
Sample ID	Date	(Feet)	Status	Benzene (mg/kg)	BTEX (mg/kg)	C6-C10	C ₁₀ -C ₂₈	DRO C6-C28	C ₂₈ -C ₃₆	C6-C36	Chloride (mg/kg)
				(mg/kg)	(ing/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
FL 26 @ 2'	8/31/2022	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 27 @ 2'	8/31/2022	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 28 @ 2'	9/6/2022	2	Excavated	< 0.050	< 0.300	<10.0	173	173	39.2	212	240
FL 28 @ 2.5'	9/12/2022	2.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FL 29 @ 2'	9/6/2022	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 30 @ 2'	9/6/2022	2	Excavated	< 0.050	< 0.300	<10.0	145	145	30.8	176	272
FL 30 @ 2.5'	9/12/2022	2.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FL 31 @ 2'	9/6/2022	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 32 @ 2'	9/6/2022	2	In-Situ	< 0.050	< 0.300	<10.0	31.2	31.2	<10.0	31.2	224
FL 33 @ 1.5'	9/6/2022	1.5	In-Situ	< 0.050	< 0.300	<10.0	81.0	81.0	11.5	92.5	176
FL 34 @ 1.5'	9/6/2022	1.5	In-Situ	< 0.050	< 0.300	<10.0	27.3	27.3	<10.0	27.3	224
FL 35 @ 2'	9/6/2022	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 36 @ 2'	9/1/2022	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 37 @ 2'	9/1/2022	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 38 @ 2'	9/1/2022	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 39 @ 6"	9/2/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 40 @ 6"	9/2/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 41 @ 6"	9/2/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 42 @ 6"	9/2/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 43 @ 6"	9/2/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 44 @ 6"	9/2/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 45 @ 6"	9/2/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 46 @ 6"	9/6/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 47 @ 6"	9/6/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 48 @ 1.5'	9/6/2022	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 49 @ 1.5'	9/6/2022	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 50 @ 1.5'	9/6/2022	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 51 @ 6"	9/6/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 52 @ 6"	9/6/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	45.6	45.6	<10.0	45.6	64.0
FL 53 @ 6"	9/6/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 54 @ 6"	9/6/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	13.2	13.2	<10.0	13.2	128
FL 55 @ 6"	9/8/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 56 @ 6"	9/8/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 57 @ 6"	9/8/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 58 @ 6"	9/8/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 59 @ 6"	9/8/2022	0.5	Excavated	< 0.050	< 0.300	<10.0	99.2	99.2	36.1	135	160
FL 59 @ 1'	9/13/2022	1	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FL 60 @ 6"	9/8/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 61 @ 6"	9/8/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	31.5	31.5	<10.0	31.5	224
FL 62 @ 6"	9/8/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 63 @ 6"	9/8/2022	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208

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

Red: NMOCD Reclamation Standard exceedance.

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

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Appendix A Depth to Groundwater Information





(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 smalle		=SE) (NAD83 UTM in m	neters)	(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	CP L	E 2 4 13 19S	29E 591	713 3613870* 🌍	1983 12	20
				Aver	age Depth to Wate	er:
					Minimum Dept	h:
					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 smal			(NAD83 U	(NAD83 UTM in meters)		
Well Tag	POD Number CP 00820 POD1	Q64 Q16 Q4 2 4	Sec 13		Rng 29E	X 591713	Y 3613870*	
Driller Lic Driller Nai		Driller Compan	y:	UN	KNOW	N		
Drill Start	Date:	Drill Finish Date	e:			Pl	ug Date:	
Log File D	ate:	PCW Rev Date:			So	urce:	Shallow	
Pump Type:		Pipe Discharge S	Pipe Discharge Size:			Es	timated Yield:	10 GPM
Casing Siz	e: 7.00	Depth Well:		12	20 feet	De	epth 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

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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 ^{\$} 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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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2022-10-12 01:53:20 EDT 0.27 0.24 nadww01 USA.gov



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Search Results -- 1 sites found

Agency code = usgs

site_no list =

• 323936104012601

Minimum number of levels = 1

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USGS 323936104012601 19S.29E.13.41224A

Eddy County, New Mexico Latitude 32°39'36", Longitude 104°01'26" NAD27 Land-surface elevation 3,309 feet above NGVD29 The depth of the well is 120.00 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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	? \$tatus	? Method of measurement	? Measuring [♀] 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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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2022-10-12 01:51:45 EDT 0.28 0.24 nadww01 USA.gov



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Search Results -- 1 sites found

Agency code = usgs

site_no list =

• 323937104012201

Minimum number of levels = 1

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USGS 323937104012201 19S.29E.13.41224

Eddy County, New Mexico Latitude 32°39'37", Longitude 104°01'22" NAD27 Land-surface elevation 3,321 feet above NAVD88 The depth of the well is 250 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water- level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1948-12-21		D	72019	123.50			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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Page Contact Information: USGS Water Data Support Team Page Last Modified: 2022-10-12 01:52:47 EDT 0.32 0.23 nadww01 USA.gov



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Agency code = usgs

site_no list =

• 324019104033201

Minimum number of levels = 1

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USGS 324019104033201 19S.29E.10.43211

Eddy County, New Mexico Latitude 32°40'19", Longitude 104°03'32" NAD27 Land-surface elevation 3,371 feet above NAVD88 The depth of the well is 153 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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	? \$tatus	? Method of measurement	? Measuring ^{\$} 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			А
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.	

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2022-10-12 01:54:05 EDT 0.27 0.24 nadww01 USA.gov



Θ

Click forNews Bulletins

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

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 ^{\$} code	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical \$ datum	? \$ Status	? Method of measurement	? Measuring ^{\$} agency	? Source of measurement	? Water- level approval status
1984-07-20		D	72019	192.26			1	Z			А
1994-03-11		D	72019	189.96			1	S			A
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	A

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

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

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2022-10-12 01:54:46 EDT 0.31 0.24 nadww01 USA.gov
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Appendix B Field Data & Soil Profile Logs



Sample Log

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te:

Project: Zircon 12-7 GF SWD Line Project Number: 16072 Latitude: 32.676282 Longitude: -104.029892 Sample ID PID/Odor Chloride Conc. GPS 30 FLIP6" -372 FL.J. QU" -3.0 312 FL 3 @6" -2.4 264 FL 4 Q 6" 3.4 ----456 5 @6" FI 2.0 200 -FL 6 CC" 2.4 264 121 FWI 504 -3.6 Nwi 3.0 -372 HI7PG" -3.2 412 206" -3.4 456 9 @ 6" FL 3.2 412 10 @6" 3.0 372 1106" 1 6.2 1404 FL * 12 06" 4.0 604 A 11 01/02 # -128 FL -7.2 2008 12 p1'e)/2 # 356 4.2 456 LIJEbel 56.444 -FL14060121/202 16.756.152 ~ 1506 el 1/2021/2 -752-2188-212 160602 1444-244 FL ~

536

128

592-316

544.180

20-2860-1348.244

72.8832.5696.400

36-1891-152

2720-1584-356

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		A CAU MA
FL 2506e2		1176-356
Lalebez	-	1176-280
· 2706 02	-)	1652.161
FL28e2	- /	356
FL 29e2	-	280
FL2802 FL2902 FL3002	7	316
FL31e2	-	280
FL32e2	~	316

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

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

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

GPS Sample Points, Center of Comp Areas

PM

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

Received by OCD: 10/20

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12000 1/2 +21/203/2

Page 39 of 170

Sample (

Project: Zircon 12-7 GFS WD Line

Date

1-1-22

Project Number:

16072

Latitude: 32.676382 Longitude: -104.029892

Sample ID	PID/O	dor Chloride Conc.	
FL33e11/2	-	280	GPS
FL 34e1 1/2	-	180	
FL 3502		212	
FL3622		488	
F237e2	- 1	2128	
FL38e2	-	444	
FL39.6		1.52	
FL 40e 6"	- 1	128	
F24106	- 1	212	
FL 42 06"	-	356	
F24306"	-	212	
F24406	-	<128	
F245e6"	-	128	
FL4606	-	400	
FL47e6"	-	128	
NNA	-	128	
EWI	-	316	
W W A W W 3	_	128	
MW3	-	128 488	
NW3	-	1244	
NW4	-	180	
NWS	-	1212	
FL48011/2	-	128	
FL49e11/2	-	316	
FL50=11/2	-	212	
FL 51 . 6"	-	444	
FL 52e6"	-	1152	
FL 5306"	-	152	
FL 54e6"	-	356	
EW2	-	356	
3V W4	_	212	
\$255e6"	-	536	
225606"	-	400	
725708	-	356	
E2 5 8 e6	-	280	
\$ 2 59e j.	-	280	
Sample Point = 5P #1 @ ## etc		Test Trench = TT #1 @ ##	Reason in the second se
Sample Point = 5P #1 @ ## etc Floor = FL #1 etc Sidewall = SW #1 etc		Refusal = SP #1 @ 4'-R	Resamples= SP #1 @ 5b or SW #1b
Sidewall = SW #1 etc		Soil intended to be Deferred = SP #1 @ 4' in-Situ	Stockpile = Stockpile #1
(q p)			GPS Sample Points, Center of Comp Areas
sine			
Geo.			
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Page 40		
Ige	1.16.17.16.4	Als
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Sample Log

Date:

9-8-22

Project: Zircon Flowline Project Number: 16072

Latitude:

Longitude:

PID/Odor	Chloride Conc.	GPS
-	356	
-		
-		
_	711	
_		
	488	
-	280	
_		
	118	
	122	
	356	
	244	
	400	
	180	
	244	
	356	
	280	
Lonconnel		
		Resamples= SP #1 @ 5b or SW #1b
		Stockpile = Stockpile #1
	Soil Intended to be Deferred = SP #1 @ 4' In-Situ	GPS Sample Points, Canter of Comp Area
		$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$

Test Trench = TT #1 @



Soil Profile

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christiane a sujety solutions,				Date:	
Project: Zircon 12-7 Project Number:	GF SWD Line 16072	Latitude:	32.676282	Longitude:	-104.029892
Depth (ft. bgs)				scription	104.025052
1	Papier	A Topsoil			
3	Hend	Celiele'			
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Appendix C Photographic Log









Photographic Log











Appendix D Laboratory Analytical Reports



August 30, 2022

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

RE: ZIRCON FLOWLINE

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

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

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

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

Accreditation applies to public drinking water matrices.

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:	08/26/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

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

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	08/29/2022	ND	2.13	106	2.00	0.103	
Toluene*	<0.050	0.050	08/29/2022	ND	2.11	105	2.00	0.114	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.02	101	2.00	0.887	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.32	105	6.00	0.600	
Total BTEX	<0.300	0.300	08/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 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	08/29/2022	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	08/29/2022	ND	211	106	200	3.10	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	201	100	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	79.4	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	91.4	% 46.3-17	0						

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:	08/26/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

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

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	08/29/2022	ND	2.13	106	2.00	0.103	
Toluene*	<0.050	0.050	08/29/2022	ND	2.11	105	2.00	0.114	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.02	101	2.00	0.887	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.32	105	6.00	0.600	
Total BTEX	<0.300	0.300	08/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	08/29/2022	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	08/29/2022	ND	211	106	200	3.10	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	201	100	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	77.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	89.4	% 46.3-17	8						

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:	08/26/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

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

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	08/29/2022	ND	2.13	106	2.00	0.103	
Toluene*	<0.050	0.050	08/29/2022	ND	2.11	105	2.00	0.114	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.02	101	2.00	0.887	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.32	105	6.00	0.600	
Total BTEX	<0.300	0.300	08/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 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	08/29/2022	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	08/29/2022	ND	211	106	200	3.10	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	201	100	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	79.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	94.0	% 46.3-17	8						

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:	08/26/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

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

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	08/29/2022	ND	2.13	106	2.00	0.103	
Toluene*	<0.050	0.050	08/29/2022	ND	2.11	105	2.00	0.114	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.02	101	2.00	0.887	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.32	105	6.00	0.600	
Total BTEX	<0.300	0.300	08/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 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	08/29/2022	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	08/29/2022	ND	211	106	200	3.10	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	201	100	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	78.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	91.8	% 46.3-17	8						

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:	08/26/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

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

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	08/29/2022	ND	2.13	106	2.00	0.103	
Toluene*	<0.050	0.050	08/29/2022	ND	2.11	105	2.00	0.114	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.02	101	2.00	0.887	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.32	105	6.00	0.600	
Total BTEX	<0.300	0.300	08/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	08/29/2022	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	08/29/2022	ND	211	106	200	3.10	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	201	100	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	79.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	91.9	% 46.3-17	8						

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:	08/26/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

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

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	08/29/2022	ND	2.13	106	2.00	0.103	
Toluene*	<0.050	0.050	08/29/2022	ND	2.11	105	2.00	0.114	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.02	101	2.00	0.887	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.32	105	6.00	0.600	
Total BTEX	<0.300	0.300	08/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 %	% 69.9-14	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	08/29/2022	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	08/29/2022	ND	211	106	200	3.10	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	201	100	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	82.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.3	% 46.3-17	8						

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:	08/26/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

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

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	08/29/2022	ND	2.13	106	2.00	0.103	
Toluene*	<0.050	0.050	08/29/2022	ND	2.11	105	2.00	0.114	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.02	101	2.00	0.887	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.32	105	6.00	0.600	
Total BTEX	<0.300	0.300	08/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 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	416	16.0	08/29/2022	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	08/30/2022	ND	211	106	200	3.10	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	201	100	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					
Surrogate: 1-Chlorooctane	71.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	81.6	% 46.3-17	8						

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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:	08/26/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

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

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	08/29/2022	ND	2.13	106	2.00	0.103	
Toluene*	<0.050	0.050	08/29/2022	ND	2.11	105	2.00	0.114	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.02	101	2.00	0.887	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.32	105	6.00	0.600	
Total BTEX	<0.300	0.300	08/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 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	384	16.0	08/29/2022	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	08/30/2022	ND	211	106	200	3.10	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	201	100	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					
Surrogate: 1-Chlorooctane	76.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	88.7	% 46.3-17							

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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:	08/26/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

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

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	08/30/2022	ND	2.13	106	2.00	0.103	
Toluene*	<0.050	0.050	08/30/2022	ND	2.11	105	2.00	0.114	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	0.887	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.32	105	6.00	0.600	
Total BTEX	<0.300	0.300	08/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 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	240	16.0	08/29/2022	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	08/30/2022	ND	211	106	200	3.10	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	201	100	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					
Surrogate: 1-Chlorooctane	81.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	94.4	% 46.3-17	8						

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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:	08/26/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

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

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	08/30/2022	ND	2.13	106	2.00	0.103	
Toluene*	<0.050	0.050	08/30/2022	ND	2.11	105	2.00	0.114	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	0.887	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.32	105	6.00	0.600	
Total BTEX	<0.300	0.300	08/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 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	352	16.0	08/29/2022	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	88.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	93.7	% 46.3-17	8						

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Analytical Results For:

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

Received:	08/26/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: NW 1 (H223944-11)

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	08/30/2022	ND	2.13	106	2.00	0.103	
Toluene*	<0.050	0.050	08/30/2022	ND	2.11	105	2.00	0.114	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	0.887	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.32	105	6.00	0.600	
Total BTEX	<0.300	0.300	08/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 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	240	16.0	08/29/2022	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	90.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.9	% 46.3-17	8						

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Analytical Results For:

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

Received:	08/26/2022	Sampling Date:	08/25/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: WW 1 (H223944-12)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2022	ND	2.13	106	2.00	0.103	
Toluene*	<0.050	0.050	08/30/2022	ND	2.11	105	2.00	0.114	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	0.887	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.32	105	6.00	0.600	
Total BTEX	<0.300	0.300	08/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 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	448	16.0	08/29/2022	ND	432	108	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	85.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	90.1	% 46.3-17	8						

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Analytical Results For:

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

Received:	08/26/2022	Sampling Date:	08/26/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

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

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	08/30/2022	ND	2.09	104	2.00	6.87	
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	103	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.92	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.37	106	6.00	8.36	
Total BTEX	<0.300	0.300	08/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 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	08/29/2022	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	85.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	89.2	% 46.3-17	8						

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Analytical Results For:

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

Received:	08/26/2022	Sampling Date:	08/26/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2022	ND	2.09	104	2.00	6.87	
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	103	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.92	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.37	106	6.00	8.36	
Total BTEX	<0.300	0.300	08/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 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	08/29/2022	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	81.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	87.4	% 46.3-17	8						

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Analytical Results For:

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

Received:	08/26/2022	Sampling Date:	08/26/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2022	ND	2.09	104	2.00	6.87	
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	103	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.92	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.37	106	6.00	8.36	
Total BTEX	<0.300	0.300	08/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 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	320	16.0	08/29/2022	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	77.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	81.7	% 46.3-17	8						

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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:	08/26/2022	Sampling Date:	08/26/2022
Reported:	08/30/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

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

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	08/30/2022	ND	2.09	104	2.00	6.87	
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	103	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.92	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.37	106	6.00	8.36	
Total BTEX	<0.300	0.300	08/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	528	16.0	08/29/2022	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	77.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	81.9	% 46.3-17	8						

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by 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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Jeck Lowy Lance Censhaw Address: 2617 West Mariand City: Hobbs State: NM Project Manager: Jeck Lowy Lance Censhaw Company Mewbovr re Attric Conner Project Mame: (575) 264-9884 Fax #: Project Name: Zircon Flouring Project Name: March Eddy county State: NM Zip: \$8248 Project Name: Zip: \$8248 Project Name: March Eddy county Sample Name: March Eddy county Sample Name: March Eddy county Project Name: Sample I.D. H723944 Sample I.D. 1 Flour 2 @ C 1 Flour 2 @ C 2 Flour 2 @ C 2 Flour 2 @ C 3 Flour 2 @ C 4 Flour 2 @ C 4 Flour 2 @ C 4 Flour 2 @ C 5 Flour 2 @ C <t< th=""><th></th><th> </th><th>-</th><th>ANALYSIS REQUEST</th></t<>			-	ANALYSIS REQUEST
ddress: 2617 West Martand ity: Hobbs State: NM Zip:88240 hone #: (575) 264-9884 Fax #: Address: J801 Buinrul/k MM roject #: 1607 2 Project Owner: Newbourne Ciry: Holds: roject Name: Zircon Flowing Flowing Flowing Flowing Flowing roject Location: Broad Eddy county Fax #: <		E .	1	
hone #: (575) 264-9884 roject #: 16072 roject Mame: Zirco ~ Flowline roject Location: Brool Eddy county ampler Name: Movel Eddy county Lab I.D. Sample I.D. 723944 Lab I.D. Sample I.D. 723944 Edd of the Second FL 3 @ 6" FL 2				
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RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 20 of 20

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

ompany Name: Etech Envir	onmental & Safety Solu	itions, In	с.	BILL TO				ANALYSIS REQUEST					
roject Manager: Joetton	Jance Cre	ashar	u.	P.O. #:									
ddress: 2617 West Marland	/			Company Mewloourre									
ty: Hobbs	State: NM	Zip: 88	3240	Attn: Cana									
hone #: (575) 264-9884	Fax #:			Address: 480	Buines	(kBI-)							
roject #: 16072	Project Owne	a Alew	bourne	City: Hobb	5	10 per ce a							
oject Name: Zircon Flo				State: MM	Zip: 87.	140	e	2W)	518				
roject Location: Rural Ed	dy CO,NM			Phone #:			Chloride	TPH (8015M)	TEX (8021B				
impler Name: Miguel K	smith			Fax #:			Chi	H	EX				
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September 02, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON FLOWLINE

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

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

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

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

Accreditation applies to public drinking water matrices.

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

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

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	09/01/2022	ND	1.69	84.4	2.00	11.4	
Toluene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	9.67	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.28	105	6.00	10.8	
Total BTEX	<0.300	0.300	09/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	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	224	16.0	09/01/2022	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	Qualifie
GRO C6-C10*	<10.0	10.0	09/01/2022	ND	201	101	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	221	110	200	0.661	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					
Surrogate: 1-Chlorooctane	102	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	106	% 46.3-17	0						

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

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2022	ND	1.69	84.4	2.00	11.4	
Toluene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	9.67	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.28	105	6.00	10.8	
Total BTEX	<0.300	0.300	09/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/01/2022	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	09/01/2022	ND	201	101	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	221	110	200	0.661	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					
Surrogate: 1-Chlorooctane	101	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	104	% 46.3-17	8						

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

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

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	09/01/2022	ND	1.69	84.4	2.00	11.4	
Toluene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	9.67	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.28	105	6.00	10.8	
Total BTEX	<0.300	0.300	09/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	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	80.0	16.0	09/01/2022	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	09/01/2022	ND	201	101	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	221	110	200	0.661	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					
Surrogate: 1-Chlorooctane	87.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	90.6	% 46.3-17	8						

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

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

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	09/01/2022	ND	1.69	84.4	2.00	11.4	
Toluene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	9.67	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.28	105	6.00	10.8	
Total BTEX	<0.300	0.300	09/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	352	16.0	09/01/2022	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	09/01/2022	ND	201	101	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	221	110	200	0.661	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					
Surrogate: 1-Chlorooctane	93.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	98.1	% 46.3-17	8						

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

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

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	09/01/2022	ND	1.69	84.4	2.00	11.4	
Toluene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	9.67	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.28	105	6.00	10.8	
Total BTEX	<0.300	0.300	09/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 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	09/01/2022	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	09/01/2022	ND	201	101	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	221	110	200	0.661	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					
Surrogate: 1-Chlorooctane	98.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	103 9	46.3-17	8						

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

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2022	ND	1.69	84.4	2.00	11.4	
Toluene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	9.67	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.28	105	6.00	10.8	
Total BTEX	<0.300	0.300	09/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 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	09/01/2022	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	09/01/2022	ND	201	101	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	221	110	200	0.661	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					
Surrogate: 1-Chlorooctane	88.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	91.4	% 46.3-17	8						

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

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

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	09/01/2022	ND	1.69	84.4	2.00	11.4	
Toluene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	9.67	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.28	105	6.00	10.8	
Total BTEX	<0.300	0.300	09/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 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	09/01/2022	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	09/01/2022	ND	201	101	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	221	110	200	0.661	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					
Surrogate: 1-Chlorooctane	98.5	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	102 9	% 46.3-17	0						

Cardinal Laboratories

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

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

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	09/01/2022	ND	1.69	84.4	2.00	11.4	
Toluene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	9.67	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.28	105	6.00	10.8	
Total BTEX	<0.300	0.300	09/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	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	304	16.0	09/01/2022	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	09/01/2022	ND	201	101	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	221	110	200	0.661	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					
Surrogate: 1-Chlorooctane	87.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	90.7	% 46.3-17	8						

Cardinal Laboratories

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

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2022	ND	1.69	84.4	2.00	11.4	
Toluene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	9.67	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.28	105	6.00	10.8	
Total BTEX	<0.300	0.300	09/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	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	09/01/2022	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	09/01/2022	ND	201	101	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	221	110	200	0.661	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					
Surrogate: 1-Chlorooctane	75.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	76.9	% 46.3-17	8						

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

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

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	09/01/2022	ND	1.69	84.4	2.00	11.4	
Toluene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	9.67	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.28	105	6.00	10.8	
Total BTEX	<0.300	0.300	09/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 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	384	16.0	09/01/2022	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	09/01/2022	ND	201	101	200	3.58	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	221	110	200	0.661	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					
Surrogate: 1-Chlorooctane	97.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	98.8	% 46.3-17	8						

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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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Routine

Page 82 of 170

Received by OCD: 10/20/2022 12:23:49 PM

ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name	e: Etech Environme	ental & Safety Solu	tions,	Inc.							81	LL TO		-			AN	ALYS	IS R	EQUE	ST		
Project Manage	r. Lance Cre	ashow							P.O.	#:				1									
Address: 261	7 W Marland								Company Menbourge				1										
City: Hobbs		State: NM	Zip:	882	40		-	1	Attn:	C	nn			1									
Phone #: (57	5) 264-9884	Fax #:							Add	ess	:49	Of Burin	s= lik A.										
Project #: 16072 Project Owner: COARE						City:	H	10.					-			1							
Project Name: Zircon Flowline Project Location: Mewbourne Oil Company									Zip: 88	240		EM)	518)										
Project Location	m: Me whatthe	Oil Cont							Pho				a.,	Chloride	FPH (8015M)	BTEX (80218)							
Sampler Name:	Eric Mojica	- timpe							Fax					CP	H	EX I							
FOR LAB USE ONLY	- ne nonce		Π	T		MA	TRIX		P	RES	ERV.	SAMPL	ING			B							
Lab I.D.	Sample	I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER	Solt	OIL	SLUDGE	OTHER :	ICE LOOPAGE.	OTHER :	DATE	TIME										
1	FL 14e2		С	I		1			T	V		8-30-22		V	V	V							
2			C	1		V				V		/		V	1	V							
3	FL 16°2		С	1		1				V		5		1	1	1		-	-		-		
4	FL 1802		C	1	_	1			1	1	1	<		1	V	1	-		-	-	-		
5	FL 1906"	~	C	1	-	V			-	V	4			V	V	V				-	-		
4	FL 20031	2	C	1		V			+	1			-	1	V	V			-		-		
7	FL alea%	1	C	1		1			+	V				V	V	1				-	-		
8	FL 22e2		C		-	V	-		+	V	-	<		V	1	11		+		+	-		
9	FL 23=5		C	4		V		-	+	V		0 21 40		1	V		-		+	+	-		-+
LEASE NOTE: Linking or	FL 2405	I client's exclusive remody for a	C	achina	whethe	1	Lin con	dract o	r Ibrt, si	V lai	-	o the amount of	at hy the client fo	r the	V	V		-	1	-	1		
natypes. All claims includi	ing these for negligence and any of Cardinal be liable for incidental or co	her cause wheleoever shall be	deemed	waived	uniform	erade i	in walking	g and	or called	t by C	antinal v	within 30 days all offic incurred by	or completion of client, in subsidi	the applica arise,	ble								
	ing out of or related to the performe		Rei	ceive										ino. esult: dt:				d'l Phon d'i Fax #					
	: (Circle One) - Bus - Other:	Time: 4.6° H.D.a	113		Ce	mple ol Yes	Inta	Ves	-	a		(ED BY: iats)	Please	email r	esult	and co	by of C	C to	pm@e	techer	tv.con) .	



September 09, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON FLOWLINE

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

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

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

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

Accreditation applies to public drinking water matrices.

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

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

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	09/08/2022	ND	1.94	96.9	2.00	1.47	
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	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	09/07/2022	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	Qualifie
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					
Surrogate: 1-Chlorooctane	86.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.5	% 46.3-17	8						

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

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

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	09/08/2022	ND	1.94	96.9	2.00	1.47	
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 \$	% 69.9-14	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	272	16.0	09/07/2022	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	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					
Surrogate: 1-Chlorooctane	81.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	90.6	% 46.3-17	8						

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

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

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	09/08/2022	ND	1.94	96.9	2.00	1.47	
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 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	09/07/2022	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	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					
Surrogate: 1-Chlorooctane	88.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	96.6	% 46.3-17	8						

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:	09/02/2022	Sampling Date:	09/01/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: NW 2 (H224053-04)

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	09/08/2022	ND	1.94	96.9	2.00	1.47	
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 \$	% 69.9-14	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	09/07/2022	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	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					
Surrogate: 1-Chlorooctane	89.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	100 9	46.3-17	8						

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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:	09/02/2022	Sampling Date:	09/01/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: NW 3 (H224053-05)

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	09/08/2022	ND	1.94	96.9	2.00	1.47	
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 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	09/07/2022	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	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					
Surrogate: 1-Chlorooctane	71.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	79.4	% 46.3-17	8						

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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:	09/02/2022	Sampling Date:	09/01/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: NW 4 (H224053-06)

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	09/08/2022	ND	1.94	96.9	2.00	1.47	
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	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	09/07/2022	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	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					
Surrogate: 1-Chlorooctane	83.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	94.0	% 46.3-17	8						

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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:	09/02/2022	Sampling Date:	09/01/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: NW 5 (H224053-07)

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	09/08/2022	ND	1.94	96.9	2.00	1.47	
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	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	09/07/2022	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	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					
Surrogate: 1-Chlorooctane	85.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	98.3	% 46.3-17	8						

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Analytical Results For:

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

Received:	09/02/2022	Sampling Date:	09/01/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: EW 1 (H224053-08)

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	09/08/2022	ND	1.94	96.9	2.00	1.47	
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	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	09/07/2022	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	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					
Surrogate: 1-Chlorooctane	83.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	93.2	% 46.3-17	8						

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Analytical Results For:

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

Received:	09/02/2022	Sampling Date:	09/01/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: WW 2 (H224053-09)

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	09/08/2022	ND	1.94	96.9	2.00	1.47	
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 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	144	16.0	09/07/2022	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	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					
Surrogate: 1-Chlorooctane	86.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	96.8	% 46.3-17	8						

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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:	09/02/2022	Sampling Date:	09/01/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

Sample ID: WW 3 (H224053-10)

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	09/08/2022	ND	1.94	96.9	2.00	1.47	
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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	09/07/2022	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	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					
Surrogate: 1-Chlorooctane	84.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	96.2	% 46.3-17	8						

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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:	09/02/2022	Sampling Date:	09/01/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

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

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	09/08/2022	ND	1.94	96.9	2.00	1.47	
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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	09/07/2022	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	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					
Surrogate: 1-Chlorooctane	84.7	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	93.7	% 46.3-17	8						

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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:	09/02/2022	Sampling Date:	09/01/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

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

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	09/08/2022	ND	1.94	96.9	2.00	1.47	
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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	09/07/2022	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	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					
Surrogate: 1-Chlorooctane	88.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	98.2	% 46.3-17	8						

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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:	09/02/2022	Sampling Date:	09/01/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	ZIRCON FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	16072	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL EDDY CO		

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

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	09/08/2022	ND	1.94	96.9	2.00	1.47	
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 69.9-14	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	352	16.0	09/07/2022	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	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					
Surrogate: 1-Chlorooctane	90.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	99.4	% 46.3-17	8						

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

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

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	09/08/2022	ND	1.94	96.9	2.00	1.47	
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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	144	16.0	09/07/2022	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	09/07/2022	ND	195	97.6	200	2.17	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.7	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					
Surrogate: 1-Chlorooctane	87.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	99.3	% 46.3-17	8						

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

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

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	09/08/2022	ND	1.94	96.9	2.00	1.47	
Toluene*	<0.050	0.050	09/08/2022	ND	1.93	96.4	2.00	0.694	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.92	95.8	2.00	0.0946	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	0.784	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 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	09/07/2022	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	09/07/2022	ND	174	86.8	200	7.63	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	177	88.3	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					
Surrogate: 1-Chlorooctane	83.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	100 9	46.3-17	8						

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

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

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	09/08/2022	ND	1.83	91.4	2.00	2.89	QM-07, QR-03
Toluene*	<0.050	0.050	09/08/2022	ND	2.05	102	2.00	7.52	QR-03
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.03	101	2.00	9.47	QR-03
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.24	104	6.00	9.87	QR-03
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 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	09/07/2022	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	09/07/2022	ND	174	86.8	200	7.63	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	177	88.3	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					
Surrogate: 1-Chlorooctane	84.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	99.7	% 46.3-17	8						

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

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

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	09/08/2022	ND	1.83	91.4	2.00	2.89	
Toluene*	<0.050	0.050	09/08/2022	ND	2.05	102	2.00	7.52	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.03	101	2.00	9.47	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.24	104	6.00	9.87	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	09/07/2022	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	09/07/2022	ND	174	86.8	200	7.63	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	177	88.3	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					
Surrogate: 1-Chlorooctane	93.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	110 9	46.3-17	8						

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

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

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	09/08/2022	ND	1.83	91.4	2.00	2.89	
Toluene*	<0.050	0.050	09/08/2022	ND	2.05	102	2.00	7.52	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.03	101	2.00	9.47	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.24	104	6.00	9.87	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 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	09/07/2022	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	09/07/2022	ND	174	86.8	200	7.63	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	177	88.3	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					
Surrogate: 1-Chlorooctane	86.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	102 9	% 46.3-17	8						

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

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

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	09/08/2022	ND	1.83	91.4	2.00	2.89	
Toluene*	<0.050	0.050	09/08/2022	ND	2.05	102	2.00	7.52	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.03	101	2.00	9.47	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.24	104	6.00	9.87	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 69.9-14	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	09/07/2022	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	09/07/2022	ND	174	86.8	200	7.63	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	177	88.3	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					
Surrogate: 1-Chlorooctane	88.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	103 9	46.3-17	8						

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

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

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	09/08/2022	ND	1.83	91.4	2.00	2.89	
Toluene*	<0.050	0.050	09/08/2022	ND	2.05	102	2.00	7.52	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.03	101	2.00	9.47	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.24	104	6.00	9.87	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	09/07/2022	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	09/07/2022	ND	174	86.8	200	7.63	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	177	88.3	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					
Surrogate: 1-Chlorooctane	93.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	110 9	% 46.3-17	8						

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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 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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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

Ro	ito	ne
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 23 of 24

Al	RDI	NAL	LA	BO	RAT	OR	IES
		-			lobbs,		

Page 105 of 170

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

Company Name	: Etech Environment	al & Safety Solu	tions, Inc.					1	1	B/1	LTO				ANA	LYS	IS R	EQUI	EST					
Project Manage	r: Lance Crem	water						P.O.	_						1		T	1						
	7 W Marland							Con	pany	M	ewhou	ine	1											
City: Hobbs		State: NM	Zip:	882	40			Attn: Conner									1							
Phone #: (57	5) 264-9884	Fax #:						Add	ress: L	180	Burines	k Blad												
Project #: 160	172	Project Owne	r:Co	2 4 4				City	Hob	10									1					
Project Name: 2	Firson Flowlin	42		LI/I.S				Stat	e:NM	1 ;	Zip: 98%	240		(W)	18)				1					
Project Location	n: Mewbourne C)i) Company							ne #:				Chloride	301	802									1
Sampler Name:	menbourne C Eric Mojica	ipin	1					Fax	#:				Ť	TPH (8015M)	BTEX (8021B)									
FOR LAB USE ONLY			Π	T		MATR	XIX	F	RESER	RV.	SAMPLI	NG	1	E	BT		1							
Lab I.D.	Sample I.	D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE	OTHER :	ICE / BOOL	OTHER :	DATE	TIME												
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4	NWZ		C	11		V	-		1	1	9.1.22		1	1	1/		-	-	-	-	-	-		-
5	NW3		C	11		V	-		1	-	\leq		1	1	V		-		+	-	-	-		-
6	NW4		C	Ц		V	+		V	-	>		V	V	1	-	-	-	-	+	+	-	-	-
7	NW 3		C	4		V		++	V	-	\leq		V	1	1V	-	+	+	-	+	+	-	-	
8	EWI		C	11		V	+	+	V	+			V	V	V	-	-	+	+-	+	+	-	-	-
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analyses. All claims includin	ng those for negligence and any other co ardinal be linble for incidental or conseq	sume whetpoover shall be	deemed	mired	tuniens a	rade is w	itteg an	t receive	d by Cardle	nal will	his 30 days after	completion of th	w applical	bie										
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FORM-00 Revision		t Ca	irdina	l ca	nnot	accet	it vei	rbai c	hange	rs. F	Please fax	written c	hange	es to i	575-39	3-247	6							

Company Name	(575) 393-2326 F : Etech Environmer		-	Inc.			-	-		1		3/1	LL TO	111				A	NALY	SIS	REQU	EST						
Project Manage	r. Lance Crens	haw							P.O. #:																			
	7 W Marland											c				Company Mewb												
City: Hobbs			Zip:	r: 88240					Attr: Conner																			
	5) 264-9884												Business	Prk Blud														
	572	Project Owner	Co,	ine	<u>e</u>				Cit	by:	Hob	63	5	0// 0			â											
Project Name:	Zircon Flaw Rural Eddy	line							1			1	Zip: 88	240	epi	TPH (8015M)	021											
Project Locatio	Kural Eddy	Co, NM					-		-		e #:				Chioride	1 (80	BTEX (8021B)											
FOR LAB USE ONLY	Eric Mojich			-		-	TRI	X	Fa	X #	ESER	N	SAMPLI	NG	Ū	TPH	STE											
- Our Day OOL ONE I			d'		1	T		1	T	F	II						-											
Lab I.D.	Sample	I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	CE / BOOL	OTHER :	DATE	TIME														
11	FL 3602		C	1		1					171	Ť	9-1-22		1	1	1											
12	FL 3702		C	1		1					1		/		1	1	1											
13	FL 3802		C	1	-	1	-	-	-		1	_			V	1	1						+ +					
14 15	FL 3906"		C	4		V	-	+	+	\vdash	1	-	9.2.22		1	1	1	-+		-+-		+	+ +					
10	FL 4/06		C	+	-	Y	+	-	-	-	1	-	\leq		V	V				+		+						
17	FL 42eb"		C	1		X	+	+-	+-		V	-	>		1	V	1	-+		+	+	+						
18	FL 43e 2"		C	t	+	1	+	-	1	\vdash	1	1		-	1	1	1	-	-	+	-	-						
19	FL 4406"		C	il	1	1	T	T	1		11				17	17	171	-	-	-	-	-						
20	FL 4506"		C	it		V	1	1	1		V				V	1	171											
LEADE MOTE: Linkling an matyless. All claims include	vi Damages. Cardinal's liability and c ng lixina for negligence and any othe	lient's carturaive remedy for an r cause whetpodver shall be d	y claim				d in co in write	ontract	t or libri at rece	t, shel	l be finit y Cardin	had to not wi	o the amount peli Whin 30 days alto	by the client for r completion of t	the spplical	blie												
	ng out of or related to the performance															-												
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	- Bus - Other:	yeje vila	-		Co	lool	Inta	act Ye		1	4	mitig	ials)															



September 09, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON FLOWLINE

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sample ID: EW 2 (H224070-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.52	109	6.00	11.3	
Total BTEX	<0.300	0.300	09/07/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 69.9-14	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	09/08/2022	ND	400	100	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	09/08/2022	ND	194	97.2	200	1.54	
DRO >C10-C28*	310	10.0	09/08/2022	ND	207	104	200	0.560	
EXT DRO >C28-C36	116	10.0	09/08/2022	ND					
Surrogate: 1-Chlorooctane	90.0	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	112	% 46.3-17	8						

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

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

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	09/07/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.52	109	6.00	11.3	
Total BTEX	<0.300	0.300	09/07/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 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	09/08/2022	ND	400	100	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	09/08/2022	ND	194	97.2	200	1.54	
DRO >C10-C28*	173	10.0	09/08/2022	ND	207	104	200	0.560	
EXT DRO >C28-C36	39.2	10.0	09/08/2022	ND					
Surrogate: 1-Chlorooctane	95.9	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	98.4	% 46.3-17	28						

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

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

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	09/07/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.52	109	6.00	11.3	
Total BTEX	<0.300	0.300	09/07/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 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	80.0	16.0	09/08/2022	ND	400	100	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	09/08/2022	ND	194	97.2	200	1.54	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	207	104	200	0.560	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					
Surrogate: 1-Chlorooctane	88.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	93.8	% 46.3-17	8						

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

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

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	09/07/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.52	109	6.00	11.3	
Total BTEX	<0.300	0.300	09/07/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	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	272	16.0	09/08/2022	ND	400	100	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	09/08/2022	ND	194	97.2	200	1.54	
DRO >C10-C28*	145	10.0	09/08/2022	ND	207	104	200	0.560	
EXT DRO >C28-C36	30.8	10.0	09/08/2022	ND					
Surrogate: 1-Chlorooctane	95.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	103 9	% 46.3-17	8						

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

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

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	09/07/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.52	109	6.00	11.3	
Total BTEX	<0.300	0.300	09/07/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 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	160	16.0	09/08/2022	ND	400	100	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	09/08/2022	ND	194	97.2	200	1.54	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	207	104	200	0.560	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					
Surrogate: 1-Chlorooctane	96.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	99.2	% 46.3-17	8						

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

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

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	09/07/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.52	109	6.00	11.3	
Total BTEX	<0.300	0.300	09/07/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 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	224	16.0	09/08/2022	ND	400	100	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	09/08/2022	ND	194	97.2	200	1.54	
DRO >C10-C28*	31.2	10.0	09/08/2022	ND	207	104	200	0.560	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					
Surrogate: 1-Chlorooctane	94.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	102 9	46.3-17	8						

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

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

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	09/07/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.52	109	6.00	11.3	
Total BTEX	<0.300	0.300	09/07/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 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	176	16.0	09/08/2022	ND	400	100	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	09/08/2022	ND	194	97.2	200	1.54	
DRO >C10-C28*	81.0	10.0	09/08/2022	ND	207	104	200	0.560	
EXT DRO >C28-C36	11.5	10.0	09/08/2022	ND					
Surrogate: 1-Chlorooctane	142 9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	153 9	% 46.3-17	8						

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

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

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	09/07/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.52	109	6.00	11.3	
Total BTEX	<0.300	0.300	09/07/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 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	224	16.0	09/08/2022	ND	400	100	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	09/08/2022	ND	194	97.2	200	1.54	
DRO >C10-C28*	27.3	10.0	09/08/2022	ND	207	104	200	0.560	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					
Surrogate: 1-Chlorooctane	92.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	99.8	% 46.3-17	8						

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

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

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	09/08/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.52	109	6.00	11.3	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 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	80.0	16.0	09/08/2022	ND	400	100	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	09/08/2022	ND	194	97.2	200	1.54	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	207	104	200	0.560	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					
Surrogate: 1-Chlorooctane	94.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	98.0	% 46.3-17	8						

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

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

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	09/08/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.52	109	6.00	11.3	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 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	272	16.0	09/08/2022	ND	400	100	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	09/08/2022	ND	194	97.2	200	1.54	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	207	104	200	0.560	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					
Surrogate: 1-Chlorooctane	88.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	92.1	% 46.3-17	8						

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

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

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	09/08/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.52	109	6.00	11.3	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	09/08/2022	ND	400	100	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	09/08/2022	ND	194	97.2	200	1.54	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	207	104	200	0.560	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					
Surrogate: 1-Chlorooctane	89.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	93.6	% 46.3-17	8						

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

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

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	09/08/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.52	109	6.00	11.3	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	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	48.0	16.0	09/08/2022	ND	400	100	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	09/08/2022	ND	224	112	200	6.45	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	213	107	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					
Surrogate: 1-Chlorooctane	79.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	87.4	% 46.3-17	8						

Cardinal Laboratories

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

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

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	09/08/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.52	109	6.00	11.3	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/08/2022	ND	400	100	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	09/08/2022	ND	224	112	200	6.45	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	213	107	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					
Surrogate: 1-Chlorooctane	74.6	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	85.3	% 46.3-17	0						

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

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

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	09/08/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.52	109	6.00	11.3	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/08/2022	ND	400	100	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	09/08/2022	ND	224	112	200	6.45	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	213	107	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					
Surrogate: 1-Chlorooctane	78.7	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	88.6	% 46.3-17	0						

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

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

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	09/08/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.52	109	6.00	11.3	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 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	224	16.0	09/08/2022	ND	400	100	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	09/08/2022	ND	224	112	200	6.45	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	213	107	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					
Surrogate: 1-Chlorooctane	73.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	84.3	% 46.3-17	8						

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

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

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	09/08/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.52	109	6.00	11.3	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 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	09/08/2022	ND	400	100	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	09/08/2022	ND	224	112	200	6.45	
DRO >C10-C28*	45.6	10.0	09/08/2022	ND	213	107	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					
Surrogate: 1-Chlorooctane	70.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	80.8	% 46.3-17	8						

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

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

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	09/08/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.52	109	6.00	11.3	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/08/2022	ND	400	100	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	09/08/2022	ND	224	112	200	6.45	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	213	107	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					
Surrogate: 1-Chlorooctane	70.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	79.7	% 46.3-17	8						

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

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

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	09/08/2022	ND	1.85	92.7	2.00	2.33	
Toluene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.10	105	2.00	10.7	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.52	109	6.00	11.3	
Total BTEX	<0.300	0.300	09/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 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	09/08/2022	ND	400	100	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	09/08/2022	ND	224	112	200	6.45	
DRO >C10-C28*	13.2	10.0	09/08/2022	ND	213	107	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					
Surrogate: 1-Chlorooctane	77.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	90.5	% 46.3-17	8						

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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

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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September 13, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON FLOWLINE

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sample ID: WW4 (H224132-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2022	ND	2.06	103	2.00	0.711	
Toluene*	<0.050	0.050	09/12/2022	ND	2.03	102	2.00	1.15	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.00	100	2.00	1.21	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.20	103	6.00	2.15	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	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	208	16.0	09/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	91.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	94.9	% 46.3-17	8						

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

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2022	ND	2.06	103	2.00	0.711	
Toluene*	<0.050	0.050	09/12/2022	ND	2.03	102	2.00	1.15	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.00	100	2.00	1.21	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.20	103	6.00	2.15	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	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	09/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	90.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	94.6	% 46.3-17	8						

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

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

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	09/12/2022	ND	1.97	98.3	2.00	0.291	
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 69.9-14	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	336	16.0	09/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	88.1	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	89.5	% 46.3-17	8						

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Analytical Results For:

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

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

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

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291	
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	69.9-14	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	09/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	90.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	92.5	% 46.3-17	8						

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Analytical Results For:

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

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

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

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291	
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 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	09/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	87.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	93.9	% 46.3-17	8						

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Analytical Results For:

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

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

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

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	09/12/2022	ND	1.97	98.3	2.00	0.291	
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 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	09/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	99.2	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	36.1	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	91.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	103	% 46.3-17	8						

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

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

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	09/12/2022	ND	1.97	98.3	2.00	0.291	
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	09/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	87.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	89.7	% 46.3-17	8						

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

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291	
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	224	16.0	09/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	31.5	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	87.6	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	95.7	% 46.3-17	8						

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

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

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	09/12/2022	ND	1.97	98.3	2.00	0.291	
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 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	208	16.0	09/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	88.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	93.3	% 46.3-17	8						

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

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

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	09/12/2022	ND	1.97	98.3	2.00	0.291	
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 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	208	16.0	09/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	91.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	94.4	% 46.3-17	8						

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

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291	
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	208	16.0	09/13/2022	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	20.5	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	84.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	89.6	% 46.3-17	8						

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

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291	
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	09/13/2022	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	201	101	200	2.15	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	214	107	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	92.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	97.0	% 46.3-17	8						

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

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291	
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 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	224	16.0	09/13/2022	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	71.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	78.4	% 46.3-17	8						

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

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

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	09/12/2022	ND	1.97	98.3	2.00	0.291	
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	240	16.0	09/13/2022	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	72.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	77.7	% 46.3-17	8						

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Analytical Results For:

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

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

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

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	09/12/2022	ND	1.97	98.3	2.00	0.291	
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 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	448	16.0	09/13/2022	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	79.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	87.0	% 46.3-17	8						

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

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291	
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/13/2022	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	66.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	73.8	% 46.3-17	8						

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Analytical Results For:

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

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

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

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	09/12/2022	ND	1.97	98.3	2.00	0.291	
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 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	176	16.0	09/13/2022	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	73.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	81.4	% 46.3-17	8						

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

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

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	09/12/2022	ND	1.97	98.3	2.00	0.291	
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 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	160	16.0	09/13/2022	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	83.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	89.0	% 46.3-17	8						

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

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2022	ND	1.97	98.3	2.00	0.291	
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	368	16.0	09/13/2022	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	83.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	92.2	% 46.3-17	8						

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

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

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	09/12/2022	ND	1.97	98.3	2.00	0.291	
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/13/2022	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	74.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	82.9	% 46.3-17	8						

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

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

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	09/12/2022	ND	1.97	98.3	2.00	0.291	
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	272	16.0	09/13/2022	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	65.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	73.0	% 46.3-17	8						

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

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

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	09/12/2022	ND	1.97	98.3	2.00	0.291	
Toluene*	<0.050	0.050	09/12/2022	ND	1.96	98.0	2.00	0.350	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	1.91	95.6	2.00	0.431	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	5.97	99.5	6.00	0.479	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	09/13/2022	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	18.7	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	83.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	94.9	% 46.3-17	8						

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

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2022	ND	1.98	99.1	2.00	0.208	
Toluene*	<0.050	0.050	09/12/2022	ND	2.21	111	2.00	1.85	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.15	107	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.66	111	6.00	3.55	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	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	224	16.0	09/13/2022	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	71.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	78.6	% 46.3-17	8						

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

Sample ID: SW 1 (H224132-24)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2022	ND	1.98	99.1	2.00	0.208	
Toluene*	<0.050	0.050	09/12/2022	ND	2.21	111	2.00	1.85	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.15	107	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.66	111	6.00	3.55	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 69.9-14	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	09/13/2022	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	69.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	77.9	% 46.3-17	8						

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

Sample ID: SW 2 (H224132-25)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2022	ND	1.98	99.1	2.00	0.208	
Toluene*	<0.050	0.050	09/12/2022	ND	2.21	111	2.00	1.85	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.15	107	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.66	111	6.00	3.55	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 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	09/13/2022	ND	448	112	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	78.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	85.0	% 46.3-17	8						

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

Sample ID: SW 3 (H224132-26)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2022	ND	1.98	99.1	2.00	0.208	
Toluene*	<0.050	0.050	09/12/2022	ND	2.21	111	2.00	1.85	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.15	107	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.66	111	6.00	3.55	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/13/2022	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	65.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	73.9	% 46.3-17	8						

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

Sample ID: SW 4 (H224132-27)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2022	ND	1.98	99.1	2.00	0.208	
Toluene*	<0.050	0.050	09/12/2022	ND	2.21	111	2.00	1.85	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.15	107	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.66	111	6.00	3.55	
Total BTEX	<0.300	0.300	09/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/13/2022	ND	448	112	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					
Surrogate: 1-Chlorooctane	75.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	83.5	% 46.3-17	8						

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Celeg 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.
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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIE 101 East Marland, Hobbs, NM 88 (575) 393-2326 FAX (575) 393-2	240																-+	3	
Company Name: Etech Environmental & Safety Solu		NC.					1	B	ILL TO	F	-			AN	ALYSI	S REC	QUEST		
Project Manager: Lance Clenshaw						P.	0. #:				1								T
Address: 2617 W Marland						Ce	ompa	my /	Memps	VIAC	1								
City: Hobbs State: NM	Zip: 8	8240	0			At	tn: (Co A I	100		1								
Phone #: (575) 264-9884 Fax #:	04		eu//			Ac	idres	s:48	OIBNI	en PekBl	V								
Project #: 16072 Project Owne	r. Ca		1			Ci	ty:	tob	1.5										
Project Name: 7:000 Flauline		n x							Zip: 88	240		(WS	18						
Project Name: Zircon Flowline Project Location: Rucal Eddy County							none				Chioride	TPH (8016M)	BTEX (8021B						
Sampler Name: Eric Mojica						-	x #:				CP	H	EX						
FOR LAB USE ONLY	TT	T		MAT	RIX		PRE	SERV	SAMP	LING	1	E I	BT						
	MP	1																	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	OTHER :	ACID/BASE:	ICE / GOOL OTHER :	DATE	TIME									
I W W Y	CI			1				1	9-8-22		1	~	1						
z FL 55e6	CJ			1				1			1	1	1						-
3 FL 56 06	C			1	_	-		1			V	V	1		-				+
4 FZ 5706	C	1		1		-		1	K		1	1	1			+ +			+
5 FL 58°6	C	1		1		-		1		+	1	1	14		-	+ +	-+-		+
6 FL 59 6	<u>c</u>]	+		1	-	+-		1	K		V	-	1			+	-+-		+-
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styses. All cleans including these for negligence and any other cause winaboutver shall b rvice. In no event shall Cardinal he liable for incidential or consequential damages, include					-							ble							
lines or successory anising out of or related to the performance of services hereunder by elinquished By: Date:	Rece				uch claim	is be	and upon	any of I	he above statut	Phone Re		D Ye	IS DN	Add	11 Phone	#:			
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telinquished BV: Date:	Rece	ived	By:					/		1									
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Revision 1.0

Received by OCD: 10/20/2022 12:23:49 PM

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2+3

(575) 393-2326 FAX (575) Company Name: Etech Environmental & Safe	No. of Concession, Name of Street, or other			R	ILL TO	2.12	-			ANAL	VSIS	REQUES	т	_
Project Manager: Lance Crenshaw	y oorono, m		P.	0. #:									TT	
Address: 2617 W Marland					lewbour									
City: Hobbs State:	VM Zip: 88	240		in: Con		10								
Phone #: (575) 264-9884 Fax #:			Ad	dress: 4	OB Bassing	. lik Blyd								
Project #: 16072 Project	Owner: Me w	barre		y. Hobb.		SHILF								
Project Name: Zircon Flowline	1100				Zip: 88	240		EM)	218)					
Project Location: Rural Eddy County	A			one #:			Chioride	801	(8021					
Sampler Name: Eric Moiich			Fa	x #:			Chi	TPH (8015M)	BTEX					
FOR LAB USE ONLY		MATR	X	PRESERV	SAMPL	ING		i i	8					
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS	GROUNDWATER WASTEWATER SoiL	SLUDGE OTHER :	ACID/BASE: ICE / BOOL OTHER :		TIME								
11 FL 6406	C 1	1		1	9.8.22		V	1	1				-+-+	_
12 F 2 6 5 e 6	C C			1			1	1	V			+++	-+-+	-
13 FL 6606	C I	Y		V	K	-	V		1			+++	-+-+	
15 FL 6806"	CI	V		1			1	1	V				++	
16 FL 69e11/2	CI	J		J	1		1	1	1					-
17 FL 70e11/2	CI	1		1	1		1	1	1		-			
18 FL710112	CI	1		1	1		1	1	1					
19 FL72 1/2	C I	V		1			1	V	1	_				
20 FL 730 1/2 LEASE MOTE: Linkilly and Damages, Cardinal's linkilly and client's each up or r	CI			1	to the amount per	i har bar fan tin	1	1	1					
envice. In no event shall Caritinal the liable for incidental devices whatsare	ir shall be deemed walk	et unique reacte in we	iling and rucal	ived by Cardinal	within 30 days allo	e completion of th	te applicat	die						
Refinquished By: Cin Mon Refinquished By: Date: 7-8- Time: Refinquished By: Date: Date:	12 Received		h claim is been	ad upon any of I	he above statist to	Phone Re Fax Resul REMARKS	sult: It:	O Ye			Phone #: Fax #:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	6.0e #113	Sample Ci Cool Int Tes [No [Yes		KED BY: itials)	Please e	mail r	esults	and cop	by of CoC	to pm@	letechenv.	com.	

	26 FAX (575) 393-2	_		_			_	-		-	-					_							_
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Project Manager: Lance (Address: 2617 W Marland	rendhaw							-		_	1	1											
City: Hobbs	State: NM	Zin	. 88	240				Co	mp	any /	10	ewbour	AC										
Phone #: (575) 264-9884	Fax #:	- ap				-		AU		-11	n A Onl	er Busines	PEMI										
Project #: 6072	Project Owne	r: N		T				Cit	are l	tobe	L.	4VIOI A=1	W/chplud										
Project Name: 7:			er	100	ov[]	no		St	y. [NM	1	Zip: 882	un		(W)	18)							
Project Name: Zipcon Fl. Project Location: Rycal Mu	Mr. Eddy Can	+.						-	one.		-	cap. 0 va	TU	ride	015	802							
Sampler Name: Eric Moji	(0	14						-	x #:		-			Chloride	TPH (8015M)	BTEX (8021B)							
FOR LAB USE ONLY		T	Г		M	ATR	X	1	-	ESER	V.	SAMPLI	NG		TP	BT							
H224132	ple I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	-	DATE	TIME										
21 FL740	1/2	C	Ļ			1	+	-		1	+	9-8-22		1	1	1			-	+	+		_
ZZ FL75e Z3 FL76e	12	C	1		-		+	-	\vdash	1	+	\leq		~	-	1	-+-		+	+	+	-+	
ZYSWI	/4	C	1			1	+	+		1	\dagger		-	5	1	1	-	+	+	+			-
ZSSW2		C	1			1	1			1	t			1	1	1		1					_
26 SW3		C	1			1				1	T	~		1	1	\checkmark							
27 SW4		C	1		,	1				1	1			1	1	1							_
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styses, All claims including those for negligence and rvice. In no event shall Cardinal be liable for incident in the second state of the second	ni or consequental damagas, includir	g withou	t limite	Nion, b		intern	iplicite,	loss of	-	or loss of	prof	its incurred by ci	ioni, its subsidiari	ies,	lle .								
Relinquished By:	Date: 9-8-22 Time:/25				By:		2	./	1	al	1		Phone Res Fax Resul REMARKS	sult: t:	O Ye			Id'l Phoi Id'l Fax					
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ampler - UPS - Bus - Other:	le. le c/ 6.	0	-		Cool				-	(Im		als)											



September 13, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON FLOWLINE

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sample ID: EW 2A (H224193-01)

ТРН 8015М	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	206	103	200	0.851	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	222	111	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					
Surrogate: 1-Chlorooctane	90.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	107 9	% 46.3-17	8						

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

TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	206	103	200	0.851	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	222	111	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					
Surrogate: 1-Chlorooctane	89.2 9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	104 %	46.3-17	8						

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

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

TPH 8015M	mg	′kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	206	103	200	0.851	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	222	111	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					
Surrogate: 1-Chlorooctane	92.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	108	% 46.3-17	8						

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Rush	R	V	S	h	
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476 Company Name: Etech Environmental & Safety Solutions, Inc.							BILL TO						ANALYSIS REQUEST										
Project Manager:	Lance Grea	shaw							P.O.														
Address: 2617 W	V Marland								Con	npan	y A	Yen	1600	ine									
City: Hobbs		State: NM	Zip:	88	240	_			Attn	r: C	DAI	nel	r										
Phone #: (575) 2	64-9884	Fax #:	-						Add	ress	:48	UB.	Vinte	CABled									
Project #: 160	72	Project Owner	: Co	A	er				City	: H	obt	65	-			-	â						
Project Name: Z:	rcon Flowl	ine	100° 4 - 4						Stat	e://	M	Zip:	88	740	ę	15M	0216						
Project Location: A	72 Texporte O Tre Mojica	il Comp	En j	1					Pho	ne #	:				Chioride	(80	X (8)						
Sampler Name: E	lic Mojica	/	_	-	_	88.0	TRIX	_	Fax	-	ECH		AMPLI		ō	rPH (8015M)	BTEX (8021B)						
FOR LAB USE ONLY	9				T	MA	INIA		ľ	RES	ERV.	1 3	AMPLI	NG									
Lab I.D.	Sample I.C).	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER MASTEWATER	Solt	TIO	SLUDGE	OTHER :	ACID/BASE: ICE / COOL	OTHER :	D	ATE	TIME									
(]	WZA		C	1		1				1		9.1	2.22			1					_		
ZF	L28021/2 L30021/2		C	1		V			-	1		K	_			V		-		_			
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8- 111		Date: 9-12-22 Thing:		1	12.		1		0	11		/	1	Fax Resul	It:		s 🗆 N						
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		Time:												Please e	mail r	esults	and co	py of CoC	C to pm	@etect	nenv.con	n.	
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September 16, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZIRCON FLOWLINE

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

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

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

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

Accreditation applies to public drinking water matrices.

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

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

TPH 8015M	mg/	′kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	188	93.9	200	2.75	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	194	97.0	200	2.18	
EXT DRO >C28-C36	36 <10.0 10.0		09/16/2022	ND					
Surrogate: 1-Chlorooctane	71.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	74.9	% 46.3-17	8						

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

Page 169 of 170

101 East Marland, Hobbs, NM 88240

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

Company Name	Etech Environmental & Sa		-	Inc.							BI	LL TO						ANA	LYSI	S RE	EQUE	ST			
Project Manage	r: Lance Crenshaw								P.O.	. #:															
Address: 261	7 West Marland								Company Mewbourne																
City: Hobbs	City: Hobbs State: NM Zip: 88240							Attn: Connor Walker											1	1					
Phone #: (575) 264-9884 Fax #:								Address: 4801 Business Park Blvd								1									
Project #: 160	72 Proje	ct Owner:		Me	wbo	ume			City: Hobbs						1.	-									
Project Name:	Zircon Flowline								Stat	te:	NM	Zip:	88240		TPH (8015M)	BTEX (8021B)									
Project Location: Rural Eddy County, NM								Pho	ne	#:			Chloride	801	80										
Sampler Name:	Eric Mojica								Fax	#:				- E	Ŧ	Ä									
FOR LAB USE ONLY					- 1-	MA	TRIX		F	PRE	SERV	SAMPL	ING		4	BT									
Lab I.D.	Sample I.D.		(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE/ COOL OTHER :	DATE	TIME												
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Revision 1.0

Received by OCD: 10/20/2022 12:23:49 PM

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

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

CONDITIONS Created By Condition

jharimon None

Page 170 of 170

CONDITIONS

Action 152347

Condition Date 1/19/2023