# Remediation Summary and Soil Closure Request

### Permian Resources Raider Fed Com 101H

Lea County, New Mexico Unit Letter A, Section 21, Township 24 South, Range 34 East Latitude 32.20917 North, Longitude 103.46866 West NMOCD Reference No. nAPP2329024748

Prepared By:

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### **TABLE OF CONTENTS**

Section

PROJECT INFORMATION.	1.0
SITE CHARACTERIZATION.	2.0
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE	3.0
REMEDIATION ACTIVITIES SUMMARY.	4.0
RESTORATION, RECLAMATION, AND RE-VEGETATION PLAN.	5.0
SOIL CLOSURE REQUEST	6 <b>.</b> 0
LIMITATIONS.	7.0
DISTRIBUTION	8.0

#### FIGURES

Figure 1 -	Topographic	Map
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Figure 2 - Aerial Proximity Map

Figure 3 - Site and Sample Location Map

#### TABLES

Table 1 - Concentrations of BTEX, TPH, and Chloride in Soil

#### APPENDICES

Appendix A - Depth to Groundwater Information

- Appendix B Field Data and Soil Profile Logs
- Appendix C Laboratory Analytical Reports
- Appendix D Photographic Log
- Appendix E Regulatory Correspondence
- Appendix F Electronic C-141 Supplemental Site Characterization Maps

# **1.0 PROJECT INFORMATION**

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Permian Resources, has prepared this *Remediation Summary and Soil Closure Request* for the release site known as the Raider Fed Com 101H (henceforth, "Site"). Details of the release are summarized below:

.atitude:		32.20	917	Longitude		-103.46866	
		52.20		ed GPS are in WGS84 for		103.10000	
Site Name:	ŀ	Raider Fee	1 Com 101H	Site Type:		Tank Battery	
Date Release Dis			7/8/2022	API # (if appl	icable):	3002543408	
<b>TT '</b> ( <b>T</b> ) (	G	· 1	T 1.	D			
Unit Letter A	Sec 2	tion	Township 24S	Range 34E	County Lea		
Surface Owner:	. <u> </u>			·	ame	Quail Ranch	
			Nature a	nd Volume of	Release		
X Crude Oil		Volume	Released (bbls)	80	Volume R	ecovered (bbls) 65	
Produced V	Vater	Volume	Released (bbls)		Volume R	ecovered (bbls)	
			ncentration of total of the produced water		X Yes	s No N/A	
Condensate	e	Volume	Released (bbls)		Volume R	ecovered (bbls)	
Natural Ga	s	Volume	Released (Mcf)		Volume R	ecovered (Mcf)	
Other (desc	cribe)	Volume/	Weight Released		Volume/W	eight Recovered	
Cause of Relea: Gasket failure o		ted separa	ator.				
			Iı	nitial Response	<b>,</b>		
X The source	of the re	lease has	been stopped.				
X The impact	ed area ł	nas been se	ecured to protect hun	nan health and the e	environment.		
X Release mat	erials ha	ave been c	ontained via the use	of berms or dikes, a	absorbent pad, or	r other containment devices	
X All free liqu	ids and	recoverab	le materials have bee	en removed and ma	naged appropriat	tely.	

### 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 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?	>101 feet
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?	Yes X 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?	Yes X No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on 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 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	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
>101 Feet	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	-
	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 June 10, 2024, remediation activities commenced at the Site. In accordance with the NMOCD requirements, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-approved surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested that BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standards.

On June 12, 2024, Etech collected seventeen (17) confirmation soil samples (FL 1 @ 3', FL 2 @ 3', FL 3 @ 4', FL 4 @ 3', FL 5 @ 3', EW 1, EW 2, EW 3, NW 1, NW 2, NW 3, SW 1, SW 2, SW 3, WW 1, WW 2, and WW 3). The collected soil samples were submitted to a certified commercial laboratory for analyses of BTEX, TPH, and chloride concentrations. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards in each of the submitted soil samples, with the exception of the TPH concentration in samples EW 2 (482 mg/kg), NW 2 (841 mg/kg), SW 2 (293 mg/kg), and WW 2 (522 mg/kg).

On June 17, 2024, Etech collected twenty-seven (27) confirmation soil samples (FL 6 @ 1', FL 7 @ 3', FL 8 @ 3', FL 9 @ 0.5', FL 10 @ 0.5', FL 11 @ 0.5', FL 12 @ 2', FL 13 @ 3', FL 14 @ 3', FL 15 @ 3', FL 16 @ 3', FL 17 @ 4', FL 18 @ 4', FL 19 @ 4', FL 20 @ 4', FL 21 @ 4', FL 22 @ 4', FL 23 @ 4', FL 24 @ 4', FL 25 @ 4', EW 4, NW 4, NW 5, SW 4, SW 5, WW 5, and WW 6). The collected soil samples were submitted to the commercial laboratory for analyses of BTEX, TPH, and chloride concentrations. Analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards in each of the submitted soil samples with the exception of the TPH concentration in samples FL 6 @ 1' (3,360 mg/kg), FL 7 @ 3' (4,710 mg/kg), and FL 19 @ 4' (2,000 mg/kg).

On June 21, 2024, excavation activities resumed at the Site. Etech collected seven (7) confirmation soil samples (FL - 19 @ 5', EW - 2B, NW - 2B, NW 6 @ 4', SW - 2B, WW - 2B, and WW 4). The collected soil samples were submitted to the commercial laboratory for analyses of BTEX, TPH, and chloride concentrations. Analytical results indicated that all submitted soil samples were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards for BTEX, TPH, and chloride.

A site and sample location map is provided as Figure 3. A soil chemistry table is provided as Table 1. Field data and soil profile logs, if applicable, are provided as Appendix B. Laboratory analytical reports are provided as Appendix C. A photographic log of the remediation is provided as Appendix D. Sampling notifications are provided as Appendix E. Supplemental C-141 information and maps are provided as Appendix F.

The final dimensions of the excavated area were approximately one-hundred thirty-five (135) feet in length, and approximately 135 feet in width. The excavation ranged from one-half (0.5) feet to five (5) feet in depth. During the course of remediation activities, approximately eight-hundred sixty-six (866) cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

### 5.0 **RESTORATION, RECLAMATION, AND RE-VEGETATION PLAN**

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted "like" material represented by soil sample Quail Ranch Pit Backfill. Excavation backfill was 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 free of noxious weeds during the first favorable growing season following closure of the site.

#### 6.0 SOIL CLOSURE REQUEST

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends Permian Resources, provide copies of this *Remediation Summary and Soil Closure Request* to the appropriate agencies and request closure be granted to the Raider Fed Com 101H Site.

#### 7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary and 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 Permian Resources. Use of the information contained in this report is prohibited without the consent of Etech and/or Permian Resources.

#### 8.0 **DISTRIBUTION**

Midland, TX 79701

*Permian Resources* 300 N. Marienfeld St. Suite 100

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

Received by OCD: 7/26/2024 10:49:11 AM

Page 8 of 148



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# Figure 2 Aerial Proximity Map

Page 10 of 148

Received by OCD: 7/26/2024 10:49:11 AM



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# Figure 3 Site and Sample Location Map

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

			G		Tabl			a				
			Concer		of BTEX, 7		Chloride i	n Soil				
					Permian R		_					
					aider Fed (							
		., .			D Ref. #: n	APP2329	024748					
NMOCD Closure Criteria         10         50         -         1,000         -         2,500         20,000           NMOCD Reclamation Standard         10         50         -         -         10         600         600												
NMOCL	Reclamation	Standard	1	10	50	-	-	-	•	100	600	
				SW 840	5 8021B		SW	GRO +	Ext.		4500 Cl	
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	DRO $C_6$ - $C_{28}$ (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)	
FL 1 @ 3'	6/13/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0	
FL 2 @ 3'	6/13/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0	
FL 3 @ 4'	6/13/2024	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
FL 4 @ 3'	6/13/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
FL 5 @ 3'	6/13/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0	
FL 6 @ 1'	6/17/2024	1	Excavated	< 0.050	< 0.300	53.2	2,720	2,770	591	3,360	<16.0	
FL - 6 @ 2'	6/21/2024	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
FL 7 @ 3'	6/17/2024	3	Excavated	< 0.050	< 0.300	131	3,670	3,800	904	4,710	<16.0	
FL - 7 @ 4'	6/21/2024	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
FL 8 @ 3'	6/17/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112	
FL 9 @ 0.5'	6/17/2024	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
FL 10 @ 0.5'	6/17/2024	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0	
FL 11 @ 0.5'	6/17/2024	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
FL 12 @ 2'	6/17/2024	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
FL 13 @ 3'	6/17/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
FL 14 @ 3'	6/17/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0	
FL 15 @ 3'	6/17/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0	
FL 16 @ 3'	6/17/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0	
FL 17 @ 4'	6/17/2024	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
FL 18 @ 4'	6/17/2024	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
FL 19 @ 4'	6/17/2024	4	Excavated	< 0.050	2.83	117	1,630	1,750	255	2,000	16.0	
FL - 19 @ 5'	6/21/2024	5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
FL 20 @ 4'	6/18/2024	4	In-Situ		< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0	
FL 21 @ 4'	6/18/2024	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
FL 22 @ 4'	6/18/2024	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0	
FL 23 @ 4'	6/18/2024	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
FL 24 @ 4'	6/18/2024	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
FL 25 @ 4'	6/18/2024	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
EW 1	6/13/2024	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0	
EW 2	6/13/2024	0-4	Excavated	<0.050	< 0.300	<10.0	390	390	91.9	482	<16.0	
EW - 2B	6/24/2024	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0	
EW 3	6/13/2024	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0	
EW 4	6/18/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0	
NW 1	6/13/2024	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
NW 2	6/13/2024	0-4	Excavated	<0.050	<0.300	<10.0	681	681	160	841	16.0	
NW - 2B	6/24/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
NW 3	6/13/2024	0-4	In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0	
NW 4	6/18/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0	
NW 5	6/18/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0	
NW 6 @ 4'	6/21/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0	
SW 1	6/13/2024	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0	

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, and Chloride in Soil         Permian Resources         Raider Fed Com 101H         NMOCD Ref. #: nAPP2329024748         NMOCD Closure Criteria         10       50       1000       2500       20000										
				10	50	-	-	1,000	-	2,500	20,000
NMOCD	Reclamation	Standard		10 SW 846	50	-	-	- 7 846 8015M ]	-	100	600 4500 Cl
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
SW 2	6/13/2024	0-4	Excavated	< 0.050	< 0.300	<10.0	240	240	53.0	293	<16.0
SW - 2B	6/24/2024	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 3	6/13/2024	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 4	6/18/2024	0-1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 5	6/18/2024	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW 1	6/13/2024	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW 2	6/13/2024	0-4	Excavated	< 0.050	< 0.300	<10.0	415	415	107	522	<16.0
WW - 2B	6/24/2024	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW 3	6/13/2024	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 4	6/21/2024	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 5	6/18/2024	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW 6	6/18/2024	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
Quail Ranch Pit Backfill	7/3/2024	N/A	Backfilled	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0

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# Appendix A Depth to Groundwater Information

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Page 17 of 148



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POD suffix indicates the POD has been replaced & no longer serves a	O=orpha	ined,		(	2110	rtai	e ore	1-NV	V 2-NF	3=SW 4=S	E)					
water right file.)	C=the fil closed)	le 1s		```					est to lar		NAD83 UT	'M in n	neters)	(In feet	.)	
		POD														
		Sub-		Q	Q	Q									V	Vater
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	Х		Y	DistanceDepth	WellDepth	Water Co	əlumn
C 03943 POD1		CUB	LE	2	4	2	21	24S	34E	644523	356426	6 🌍	432	610	431	179
C 03932 POD13		CUB	LE	4	2	3	15	24S	34E	645314	356520	3 🌍	1137	90		
P 04400 POD2		Р	RO	4	2	1	21	01S	33E	642775	356505	1 🌍	1597	95		
												Avera	ge Depth to Water:		431 fe	et
													Minimum Depth	:	431 fe	et
													Maximum Depth:		431 fe	et
Record Count: 3																
UTMNAD83 Radi	ius Search (in	<u>1 meters</u> )	<u>:</u>													
Easting (X): 6	44321.39		North	ning	(Y)	):	3564	4649.1	3		Radius:	1610				

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WATER COLUMN/ AVERAGE DEPTH TO WATER



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

			(quarte	ers are 1=	=NW 2=	NE 3=SW	/ 4=SE)			
			(quar	ters are s	smallest	to largest	)	(NAD83 UT	'M in meters)	
Well Tag	POE	) Number	Q64	Q16 Q	04 Se	c Tws	Rng	Х	Y	
	C 0	3943 POD1	2	4	2 2	24S	34E	644523	3564266 🌍	
Driller Lic	ense:	1737	Driller	Comp	any:	SH	ADE TF	REE DRILLI	NG	
Driller Na	me:	JUSTIN MULLIN	NS							
Drill Start	Date:	04/21/2016	Drill F	inish I	Date:	0	4/24/201	16 <b>Plu</b>	g Date:	
Log File D	ate:	04/25/2016	PCW I	Rcv Da	te:			Sou	irce:	Shallow
Pump Typ	e:		Pipe D	ischar	ge Siz	e:		Est	imated Yield:	5 GPM
Casing Siz	e:	6.00	Depth	Well:		6	10 feet	Dej	oth Water:	431 feet
< c	Wate	er Bearing Stratifi	cations:		Тор	Botton	Desci	ription		
					39	431	Sands	stone/Gravel/	Conglomerate	
X		Casing Perf	orations:		Тор	Botton	ı			
					420	480	)			

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.

2/22/24 7:57 AM

POINT OF DIVERSION SUMMARY



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

	OSE POD N	JMBER (WEL	L NUMBER)			OSE FILE NU	MBER(S)				
NO	C-3943					C-3943					
ATI	1	ER NAME(\$)				PHONE (OPTIONAL)					
) OC	Bert Mad	era				575-631-4444					
GENERAL AND WELL LOCATION	WELL OWN 1108 W.	er mailing Pierce	ADDRESS			crry STATE ZIP carlsbad nm 88220					
ê			DEGREES	MINUTES SECON	DS						
AN	WELL LOCATIO		32	12 20.5	N	* ACCURACY	* ACCURACY REQUIRED: ONE TENTH OF A SECOND				
RAI	(FROM GI		NGITUDE 103	27 59.7	W	* DATUM RE	QUIRED: WGS 84				
ENE	DESCRIPTIO			ADDRESS AND COMMON LANDMARKS - PL	SS (SECTION, T	OWNSHIP, RANG	E) WHERE AVAILABLE	<u></u>			
г. С				/4 Of Section 21, T245, R34E		0111010101010					
	3L 1/4 Or	- NE 1/4 (		/4 Of Section 21, 1243, N34L							
	LICENSE NU		NAME OF LICENSED	DRILLER			NAME OF WELL DRI	LLING COMPANY			
l	WD-1737		Justin Mullins				WRR				
	DRILLING S 4-21-16			DEPTH OF COMPLETED WELL (FT) 610'	BORE HOI	LE DEPTH (FT)	DEPTH WATER FIRS	ST ENCOUNTERED (F	T)		
7	COMPLETE	D WELL IS:	C ARTESIAN	C DRY HOLE C SHALLOW (UNC	CONFINED)	<b>_</b>	STATIC WATER LEV	EL IN COMPLETED	VELL (FT)		
LIOI	DRILLING F		€ AIR	C MUD ADDITIVES - SI	ECIEV		<u>}</u>				
MA.	DRILLING N		ROTARY	C HAMMER C CABLE TOOL		R - SPECIFY:					
FOR	<u> </u>	(feet bgl)		CASING MATERIAL AND/OR			1				
N	FROM	TO	BORE HOLE DIAM	GRADE		ASING VECTION	CASING INSIDE DIAM.	CASING WALL THICKNESS	-SLOT _SIZE		
2. DRILLING & CASING INFORMATION		10	(inches)	(include each casing string, and note sections of screen)		YPE	(inches)	(inches)			
& C	0	40'	14 3/4"	12" steal	weld		12"	1/4"	Çu		
ŊĊ	40	420	11"	6" steal	weld		б"	1/4"	<ul> <li>Martine</li> <li>Martine</li> <li>Martine</li> <li>Martine</li> </ul>		
III	420'	480'	11"	6" steal	weld		6"	1/4" 😳	1/8"		
DRI	480'	610	11"	6" steal	weld		6"	1/4"			
2.											
								ä			
	· · · · · · · · · · · · · · · · · · ·							<u></u>			
							· ·				
	DEPTH	(feet bgl)	BORE HOLE	LIST ANNULAR SEAL M	ATERIAL A		AMOUNT		OD OF		
T	FROM	то	DIAM. (inches)	GRAVEL PACK SIZE-RANC			(cubic feet)		EMENT		
CR LA	0 <sup>1</sup>	40'	14 3/4"	portland cement		<u> </u>	13.38'	hand			
ANNULAR MATERIAL	20'	610'	11"	1/2" gravel			253.5'	hand			
RΜ	0'	20'	11"	portland cement			11.1'	hand			
ΓVI	<u> </u>	20									
NN NN											
3. Al						. <u></u>	l				
FOP	OSE INTER	NAL USE		L		11/B 0			/08/2012)		
	NUMBER		- 20112	POD NUMBER	2 1		0 WELL RECORD &	NCI OF	)		
	ATION	<u>م ال</u>		N. 2.4.2	<b> </b>		EVD		E 1 OF 2		
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Received by (	OCD: 7/26/2024	10:49:11 AM
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DEPTH (res. Hg/)         UNLLDE WATER-REALENCOUNTERD - INCLUDE WATER-REARING CAVITES OF PAACTURE JOBS         WATER INCLUDE WATER-REARING STRATA         C Y C N         State           0         8'         8'         top soli         C Y C N         State         C Y C N         State           39         431'         392         sand stone         C Y C N         C Y C N         State         State         State         C Y C N         State         State         C Y C N         State							
FRUM         TO         IMICK Sets (rest applemental sheets to fully decribe all rails)         BALANCE (VTIN / NO)         WATER 2001           0         8         8         top 501         C Y © N         C         Y         N         N           25         39'         14'         red clay         C Y © N         N         N         N           25'         39'         14'         red clay         C Y © N         N         N           26'         39'         431'         392'         sand stone         C Y © N         N           431'         610'         179'         sand stone         C Y © N         N         N           431'         610'         179'         sand stone         C Y © N         N         N           431'         610'         179'         sand stone         C Y © N         N         N           431'         610'         179'         sand stone         C Y © N         N         N           431'         610'         179'         sand stone         C Y © N         N         N           431'         610'         179'         sand stone         C Y © N         N         N           10'		DEPTH (	feet bgl)		COLOR AND TYPE OF MATERIAL ENCOUNTERED -	WATER	
Other         Control (stack septemental steets (o fully directific all tails)         (13.7 NO)         ZONES (gon)           0'         B'         25'         17'         Calif.che         C Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N         C         Y © N		Encly				BEARING?	WATER-
8         25         17         caliche         C         Y         N           25         39         14'         red clay         C         Y         N           39         431'         392         sand stone         C         Y         N           431'         610         179         sand stone         C         Y         N           C         Y         N         C         Y         N         C         Y         N           C         Y         N         C         Y         N         C         Y         N           C         Y         N         C         Y         N         C         Y         N           C         Y         N         C         Y         N         C		FROM	10	(1001)	(attach supplemental sheets to fully describe all units)	(YES / NO)	
25         39         14'         red clay         C         y         N           39         431'         302         sand stone         C         Y         N         5+           431'         610'         179'         sand stone         C         Y         N         5+           431'         610'         179'         sand stone         C         Y         N           431'         610'         179'         sand stone         C         Y         N           431'         610'         179'         sand stone         C         Y         N           C         Y         N         C         Y         N         C         Y         N           C         Y         N         C         Y         N         C         Y         N           C         Y         N         C         Y         N         C         Y         N           C         Y         N         C         Y         N         C         Y         N           C         Y         N         C         Y         N         C         Y         N         C         Y         N <td></td> <td>0'</td> <td>8'</td> <td>8'</td> <td>top soil</td> <td>CYGN</td> <td></td>		0'	8'	8'	top soil	CYGN	
39         431'         392'         sand stone         C Y C N         5+           431'         610'         179'         sand stone         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N <t< td=""><td></td><td>8</td><td>25'</td><td>17'</td><td>caliche</td><td>CY (N</td><td></td></t<>		8	25'	17'	caliche	CY (N	
431'         610'         179'         sand stone         C Y C N           C Y C N         C Y C N         C Y C N         C Y C N           C Y C N         C Y C N         C Y C N         C Y C N           C Y C N         C Y C N         C Y C N         C Y C N           C Y C N         C Y C N         C Y C N         C Y C N           C Y C N         C Y C N         C Y C N         C Y C N           C Y C N         C Y C N         C Y C N         C Y C N           C Y C N         C Y C N         C Y C N         C Y C N           C Y C N         C Y C N         C Y C N         C Y C N           C Y C N         C Y C N         C Y C N         C Y C N           C Y C N         C Y C N         C Y C N         C Y C N           C Y C N         C Y C N         C Y C N         C Y C N           C Y C N         C Y C N         C Y C N         C Y C N           METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA         C PUMP         TOTAL ESTIMATE WIELD OF WATER-BEARING STRATA         C PUMP           WFLL TEST         TEST TESSULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARE METHOD.         Strast Time, END TIME, END TABLE STOM HAS OF HER OND WOWN OVER THE TESTING PENDER <td< td=""><td></td><td>25'</td><td>39'</td><td>14'</td><td>red clay</td><td>CY ( N</td><td></td></td<>		25'	39'	14'	red clay	CY ( N	
THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDKE AND BELLEF, THE POREGOING IS A TRUE AND THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDKE AND BELLEF. THE POREGOING IS A TRUE AND THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDKE AND BELLEF. THE POREGOING IS A TRUE AND THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDKE AND BELLEF. THE POREGOING IS A TRUE AND THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDKE AND BELLEF. THE POREGOING IS A TRUE AND THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDKE AND BELLEF. THE POREGOING IS A TRUE AND THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDKE AND BELLEF. THE POREGOING IS A TRUE AND THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDKE AND BELLEF. THE POREGOING IS A TRUE AND THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDKE AND BELLEF. THE POREGOING IS A TRUE AND THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDKE AND BELLEF. THE POREGOING IS A TRUE AND THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDKE AND BELLEF. THE POREGOING IS A TRUE AND THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDKE AND BELLEF. THE POREGOING IS A TRUE AND THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDKE AND BELLEF. THE POREGOING IS A TRUE AND THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDKE AND BELLEF. THE POREGOING IS A TRUE AND THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDKE AND BELLEF. THE POREGOING IS A TRUE AND THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDKE AND BELLEF. THE POREGOING IS A TRUE AND THE NAME OF DRUCK OF DRUCK AND TAKE DO AND THE POREGOING IS A TRUE AND THE NAME OF DRUCK OF DRUCK AND TAKE DA ATTHE CONSTRUCTION OF WILL DRUCK OF DRUCK OF DRUCK OF DR		39'	431'	392'	sand stone	<b>e</b> Y <b>C</b> N	5+
C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C Y C N     C		431'	610'	179'	sand stone	Счем	
C C C C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD,         MELL TEST         TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD,         MELL TEST         TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE AND D	Е					CYCN	
C C C C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD,         MELL TEST         TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD,         MELL TEST         TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE AND D	WE					CYCN	
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OPEN PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE         WELL TEST         THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE POREGOING IS A TRUE AND THE PRINT NAME(S) OF DRILL RIG SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE         THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE POREGOING IS A TRUE AND AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:         TOTAL ESTIMATE OF DRILLER / PRINT SIGNEE NAME         OR OSE INTERNAL USE         POD NUMBER         VEL2 WEL2 RECORD & LOG (Version 06/08/2012)	ΓOC					<u> </u>	
OPEN PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE         WELL TEST         THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE POREGOING IS A TRUE AND THE PRINT NAME(S) OF DRILL RIG SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE         THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE POREGOING IS A TRUE AND AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:         TOTAL ESTIMATE OF DRILLER / PRINT SIGNEE NAME         OR OSE INTERNAL USE         POD NUMBER         VEL2 WEL2 RECORD & LOG (Version 06/08/2012)	GIC			·		<u> </u>	
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C C C C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD,         MELL TEST         TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD,         MELL TEST         TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE AND D	GE			····			
C C C C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD,         MELL TEST         TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD,         MELL TEST         TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE AND D	DRC						
C C C C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         C Y C N         TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD,         MELL TEST         TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD,         MELL TEST         TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE AND D	, HY	<u> </u>				( (	· · · · ·
CY C N         COMECT RECORD TO ESTIMATE YIELD OF WATER-SPECIFY:         WELL TEST         TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.         MISCELLANEOUS INFORMATION:         THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND         CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER         AD THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS	J						
CY CN         WELL EST         TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.         MISCELLANEOUS INFORMATION:         THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE AROUE DESCRIBED HOLE AND THAT HE OR SHEWILL FILL THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:         QUELTION         QUELTION         QUELTION         QUELTION         QUELTION         QUELTION         QUELTION							· · · · · · · · · · · · · · · · · · ·
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# New Mexico Office of the State Engineer Point of Diversion Summary

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Well Tag	POE	Number	Q64	Q16	Q4	Sec	Tws	Rng	Х	Y	
	C 0	3932 POD13	4	2	3	15	24S	34E	645314	3565203	
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Driller Nam	ie:	LEE PETERSON									
Drill Start I	Date:	02/10/2016	Drill I	Tinisł	ı Da	te:	0	2/11/20	)16 <b>Pl</b>	ug Date:	
Log File Da	te:	03/01/2016	PCW	Rcv ]	Date	:			Sa	ource:	
Pump Type:	:		Pipe D	Disch	arge	Size:			Es	timated Yield:	
Casing Size:	:		Depth	Well	l:		9	0 feet	De	epth Water:	

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.

2/22/24 8:31 AM

POINT OF DIVERSION SUMMARY



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

	OSE POD NUM	BER (WEI	LL NUMBER)					OSE FILE NUN	ABER(S)			
N	S15-BH-03							C 03932				
Ĕ	WELL OWNER	NAME(S)	)	· · · ·				PHONE (OPTI	ONAL)			
CA		• • •	, khill, Smith & Coor	per Attention:	R.H. Holder							
Ц,	WELL OWNER		· ·					CITY		STATE		ZIP
113	4222 85th St		ADDRESS					Lubbock			79423	
IM	4222 8541 51					•		LUDDOCK		Толаз	79425	_
AND WELL LOCATION	WELL		DE	GREES	MINUTES	SECO	IDS .					
Ϋ́	LOCATION	LA	TITUDE	32	12	50.	55 N	* ACCURACY	REQUIRED: ONE TEN	TH OF A SECO	OND	
ERA	(FROM GPS)	1.01	NGITUDE	103	27	28.	96 W	* DATUM REC	UIRED: WGS 84			
GENERAL			NGITUDE					A (SECTION TO	NAME DANCEN NO.		DIE	
5								a (section, to	WINSHIJP, KANGE) WH	EKE AVAILA	DLE	
-	SW 1/4 of SV	N 1/4 o	f NW 1/4 of SE 1/4	of Section 15,	Fownship 24	S, Range	e 34E					
	LICENSE NUM	BER	NAME OF LICENSED	DRILLER					NAME OF WELL DR	ILLING COM	PANY	
	WD-12	22		L	ee Peterson				Peterson 1	Drilling & T	esting, Ind	C.
	DRILLING STA	RTED	DRILLING ENDED	DEPTH OF COMP	FTED WELL (F	T\ {	BOREHOI	E DEPTH (FT)	DEPTH WATER FIR	_		
	02/10/1		02/11/16			.,		90'				
	02/10/1	•	02/11/10	••••					STATIC WATER LEV		I ETEN WE	
	COMPLETED W	/FUIS-	ARTESIAN	DRY HOLE	SHALLO	wanco	NEINED)		STATIC WATER LEV	CEL IN COMP.		ψυ (ri)
NO			Jami ARTEDIAR	John HOEZ	1							
μ	DRILLING FLU	ID:	AIR	MUD	ADDITIV	ES – SPEC	CIFY:					
CASING INFORMATION	DRILLING MET	HOD:	ROTARY	HAMMER	CABLE T	OOL	C OTHE	R - SPECIFY:				
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-	DEPTH (fe	et bgl)	BORE HOLE	1	ANNULAR SI				AMOUNT		METHO	
IAL	FROM	то	DIAM. (inches)	GRAVE	L PACK SIZE	-RANGE	BY INTE	RVAL	(cubic feet)		PLACEM	IENT
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FILE NUMBER C-3937	POD NUMBER 13	TRN NUMBER 5	81433
LOCATION 245.34E 15.4.2	•3	EXPL	PAGE 1 OF 2

	DEPTH (	feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES	; ВЕ	VATER EARING? ES / NO)	ESTIMATED YIELD FOR WATER- BEARING
		-		(attach supplemental sheets to fully describe all units)			ZONES (gpm)
	0	6	6	Light Reddish Brown Fine Sand	3	✓ N	
	6	13	7	Light Reddish Brown Sand with Caliche	<u> </u>	Y √N	
	13	· 19	6	Light Reddish Brown Fine Sand	<u> </u>	Z √N	
	19	29	10	Tan-White Caliche with Light Reddish Brown Sand	3	∕ √ N	. ·
	29	39	10	Light Reddish Brown Sand	<u> </u>	Y <b>√</b> N	
T	39	45	6	Gray to Dark Gray Sand	Ŋ		
4. HYDROGEOLOGIC LOG OF WELL	45	54	9	Gray-Dark Gray Sand with Sandstone Pebbles	Ň	✓ N	
OF	54	55	1	Dark Reddish Brown to Light Reddish Brown Silty Claystone	N N	Υ <b>√</b> Ν	
00 10	55	. 58	3	Green to Gray Shale	Ŋ	✓ N	
	58	62	4	Dark Reddish Brown Silty Claystone	Ŋ	Z √N	
LOC 1	62	74	12	Dark Reddish Brown Claystone	Ŋ	ζ <b>√</b> Ν	-
<b>JEO</b>	74	75	1	Light Brown to Gray Silty Clay	Y	γ γ N	
RO	75	77	2	Dark Reddish Brown Claystone		7. <b>√</b> N	
TYD	77	79	2	Light Brown to Gray Silty Clay	Ŋ	Z √N	
4	79	80	1	Dark Reddish Brown Claystone	Ŋ	ζ √N	
	80	82	2	Light Brown to Gray Sandy Silt	Ŋ	Z √N	
	82	87	5	Dark Reddish Brown Clayey Silt	Ŋ	Z √N	
	87	90	3	Light Brown to Gray Silty Sand	. 3	7 N	
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	PUM		IR LIFT	BAILER OTHER – SPECIFY:		ELD (gpm):	0.00
				BAILERUIRER - SPECIFI.			
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EST	PRINT NAM	AE(S) OF D	RILL RIG SUPER	RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CON	STRUCTIO	N OTHER TI	HAN LICENSEE:
5. T	· .			· · · · · · · · · · · · · · · · · · ·			
	THE UNDE	RSIGNED H	IEREBY CERTIN	TES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELI	EF, THE FO	REGOING I	S A TRUE AND
SIGNATURE				DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL R 20 DAYS AFTER COMPLETION OF WELL DRILLING:	ECORD WI	TH THE STA	TE ENGINEER
TAT		$\sum$	· )	$\cap$	· 1	1	
SIG		. 1	V/	- 1000 Morenson	7/2	6116	
6.9			URE OF DRILLE	ER / PRINT SIGNEE NAME	CIC	DATE	
<u>.</u>	<u> </u>	SIGNAL	OVE OF DRIFFE	A / THIN BOALD MANE		DATE	
FOI	R OSE INTER	NAL USE	<u> </u>	WR-20 WE	LL RECOR	& LOG (Ve	rsion 06/08/2012)
	E NUMBER	$\underline{}$	-3932	pod number 13 TRN NUMB	ER 5	814	<u>کځ</u>
LO	CATION 🚽	$0\Psi S$	34F 1	5 U.2.7 F	XDI		PAGE 2 OF 2

Received by OCD: 7/26/2024 10:49:11 AM

Tom Blaine, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 581433 File Nbr: C 03932 Well File Nbr: C 03932 POD13

Mar. 28, 2016

ROBERT H HOLDER BRYCE KRAGER 4222 85TH ST LUBBOCK, TX 79423

Greetings:

The above numbered permit was issued in your name on 01/27/2016.

The Well Record was received in this office on 03/01/2016, stating that it had been completed on 02/11/2016, and was a dry well. The well is to be plugged or capped or otherwise maintained in a manner satisfactory to the State Engineer.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 01/14/2017.

If you have any questions, please feel free to contact us.

Sincerely,

Deborah Dunaway

(575)622-6521

drywell

# WELL RECORD & LOG

### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

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	OSE POD NUI	MBER (WE	LL NUMBER)					OSE FILE NUN	MBER(S)		
Z	S15-BH-03							C 03932			
, LL	WELL OWNE	R NAME(S	)					PHONE (OPTI	ONAL)		
CA			, khill, Smith & Cooj	per Attention:	R.H. Holder						
ц	WELL OWNE						<u> </u>	СГТҮ	·····	STATE	ZIP
T	4222 85th S		J ADDRESS					Lubbock		Texas 79423	ZIF
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Q	WELL		Dł	GREES	MINUTES	SECON	DS				
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<b>RA</b>	(FROM GPS	5)		103	27	28.	96 w	* DATUM REC	QUIRED: WGS 84		
GENERAL AND WELL LOCATION			NGITUDE								
1. G			NG WELL LOCATION TO					S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAILABLE	
-	SW 1/4 of 8	SW 1/4 o	f NW 1/4 of SE 1/4	of Section 15,	Township 24S	5, Range	: 34E				
	LICENSENUM	MBER	NAME OF LICENSED			<u></u>			NAME OF WELL DR	ILLING COMPANY	
	WD-1		initial of electricity		Lee Peterson					Drilling & Testing, In	c
	DRILLING ST		DEPUTRICEDED			<u> </u>	POPE Ho				
	4		DRILLING ENDED	DEPTH OF COM	PLETED WELL (F1			LE DEPTH (FT) 90'	DEPTH WATER FIR:	ST ENCOUNTERED (FT	)
	02/10/	10	02/11/16					90			
	00) 74 7777			DRY HOLE					STATIC WATER LEV	EL IN COMPLETED WE	ELL (FT)
Z	COMPLETED	WELL IS:	ARTESIAN	DRY HOLE	SHALLOV	W (UNCO	NFINEDJ				
2. DRILLING & CASING INFORMATION	DRILLING FL	UID	AIR	MUD	ADDITIVI	ES – SPEC	IFY:				
MA	DRILLING ME	THOD.	C ROTARY	HAMMER				R - SPECIFY	~		
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				. <b></b>						120	I fair a see
				<u> </u>						Comu- 4-(2003)	
	DEPTH (1	feet bgl)	BORE HOLE	1187	ANNULAR SE	AL MA		ND	AMOUNT	метно	
H	<u> </u>		DIAM. (inches)	1	EL PACK SIZE-				(cubic feet)	PLACEN	
RIA	FROM	ТО									
TE	<u> </u>										
MA				ļ							
AR											
ANNULAR MATERIAL							<u>_</u>				
Z											
<b>3.</b> A											
FOR	OSE INTERN								) WELL RECORD A		

FILE NUMBER C-3935	POD NUMBER 13	TRN NUMBER	581433
LOCATION 245.34E.15.	3.2.4	EXPL	PAGE 1 OF 2

.

	· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·	
	DEPTH ()	feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	6	6	Light Reddish Brown Fine Sand	Y V N	
	6	13	7	Light Reddish Brown Sand with Caliche	Y √ N	
	13	· 19	6	Light Reddish Brown Fine Sand	Y √ N	
	19	29	10	Tan-White Caliche with Light Reddish Brown Sand	Y ✓ N	
	29	39	10	Light Reddish Brown Sand	Y √N	
Ţ	39	45	6	Gray to Dark Gray Sand	Y √N	
HYDROGEOLOGIC LOG OF WELL	45	54	9	Gray-Dark Gray Sand with Sandstone Pebbles	Y √N	
OF	54	55	1	Dark Reddish Brown to Light Reddish Brown Silty Claystone	Y √N	
,0G	55	58	3	Green to Gray Shale	Y VN	
ICI.	58	62	4	Dark Reddish Brown Silty Claystone	Y √N	
LOG	62	74	12	Dark Reddish Brown Claystone	Y √N	
GEO	74	75	1	Light Brown to Gray Silty Clay	Y √N	
ROC	75	77	2	Dark Reddish Brown Claystone	Y √N	
QXB	77	79	2	Light Brown to Gray Silty Clay	Y √N	
4	79	80	1	Dark Reddish Brown Claystone	Y √N	
	80	82	2	Light Brown to Gray Sandy Silt	Y √N	
	82	87	5	Dark Reddish Brown Clayey Silt	Y √N	
	87	90	3	Light Brown to Gray Silty Sand	Y N	
					Y N	
					Y N	
					Y N	
	METHOD U	ISED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA:	TOTAL ESTIMATED	
	PUM		IR LIFT	BAILER OTHER – SPECIFY:	WELL YIELD (gpm):	0.00
NOISI	WELL TES	T TEST	RESULTS - ATT	ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INC ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVE	LUDING DISCHARGE N ER THE TESTING PERIC	METHOD, ID.
TEST; RIG SUPERVISI	MISCELLA	NEOUS INF	FORMATION: BO	pring location drilled only as a soil boring and plugged after comple	tion per well plugging	plan.
5. TES	PRINT NAM	AE(S) OF DI	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CON	STRUCTION OTHER TH	AN LICENSEE:
6. SIGNATURE	CORRECT	RECORD OF	F THE ABOVE D	IES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELI DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL R DO DAYS AFTER COMPLETION OF WELL DRILLING: WHE DETURS		
FOI	R OSE INTER	NAL USE		WR-20 WE	LL RECORD & LOG (Ver	sion 06/08/2012)
	E NUMBER	Ĉ	-3932	POD NUMBER 3 TRN NUMB		33
LO	CATION C	245.	34E.1	J. 3.2.4 E	XPC.	PAGE 2 OF 2



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 581433 File Nbr: C 03932 Well File Nbr: C 03932 POD13

Apr. 12, 2016

ROBERT H. HOLDER BRYCE KARGER 4222 85TH ST. LUBBOCK, TX 79423

Greetings:

The above numbered permit was issued in your name on 01/27/2016.

The Well Record was received in this office on 03/01/2016, stating that it had been completed on 02/11/2016, and was a dry well. The well is to be plugged or capped or otherwise maintained in a manner satisfactory to the State Engineer.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 01/14/2017.

If you have any questions, please feel free to contact us.

Sincerely,

Deborah Dunaway (575)622-6521

drywell



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

			(quart	ers are	1=NV	V 2=N	E 3=SW	(4=SE)			
			(quai	ters are	e sma	llest to	largest)		(NAD83 U	TM in meters)	
Well Tag	POE	) Number	Q64	Q16	Q4	Sec	Tws	Rng	Х	Y	
2122A	P 04	4400 POD2	4	2	1	21	01S	33E	642775	3565051 🧉	)
Driller Lic	ense:	1106	Driller	Com	pan	y:	L &	J WEL	L SERVICI	E, INC.	
Driller Na	me:	LARRY JEWELL									
Drill Start	Date:	03/14/2023	Drill F	inish	Dat	e:	03	3/15/202	23 Pl	ug Date:	
Log File D	ate:	04/05/2023	PCW	Rev D	ate:				So	ource:	Shallow
Pump Typ	e:		Pipe D	ischa	rge	Size:			Es	stimated Yield:	
Casing Siz	e:	5.00	Depth	Well:			95	5 feet	D	epth Water:	
C	Wate	er Bearing Stratific	cations:		То	рE	Bottom	Desci	ription		
					7	8	93	Sands	stone/Grave	l/Conglomerate	;
X		Casing Perfo	orations:		То	рE	Bottom				
					7	5	95				

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.

2/22/24 8:31 AM

POINT OF DIVERSION SUMMARY

05E 011 APR 5 2023 AMB: 31



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

N	OSE POD NO. P-4400 - PC		.)		WELL TAG ID NO 2122A	•		OSE FILE NO(3 P-4400	S).				
DCATIC	WELL OWNE							PHONE (OPTIC	ONAL)				
WELL LO	well owne 2651 S. RO							CITY PORTALES		STATE NM	88130	ZIP	
GENERAL AND WELL LOCATION	WELL LOCATION (FROM GPS	S)	TITUDE	GREES 34 103	MINUTES 12 29	SECONI 49.3 05.5	6 N		REQUIRED: ONE TENT QUIRED: WGS 84	TH OF A S	SECOND		
NE		LO	NGITUDE										
1. GE	DESCRIPTIC 2651 S. RO		NG WELL LOCATION TO LT RD. 3	STREET ADDF	RESS AND COMMO	N LANDMA	RKS – PL	SS (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVA	ILABLE		
	LICENSE NO WD-1		NAME OF LICENSED		VICE INC. / LA	ARRY E.	JEWEL	L	NAME OF WELL DRI L & J W		OMPANY ERVICE INC		
	DRILLING ST 3-14-2		DRILLING ENDED 3-15-2023	DEPTH OF CO	MPLETED WELL (F 95	T)	BORE HO	DLE DEPTH (FT) 95	DEPTH WATER FIRS	ST ENCO N/A		)	
Z	COMPLETED	WELL IS:	ARTESIAN *add Centralizer info bel		LE 🔽 SHALLO	W (UNCON	FINED)		WATER LEVEL PLETED WELL 8	9	DATE STATIC 3-16-		
TIO	DRILLING FI	LUID:	AIR	MUD	ADDITIV	ES - SPEC	FY:						
RMA	DRILLING METHOD:  ROTARY HAMMER CABLE TOOL OTHER - SPECIFY:								CHECK HERE IF PITLESS ADAPTER IS INSTALLED				
NFO	DEPTH	(feet bgl)	BORE HOLE	CASING	MATERIAL ANI	D/OR	C	ASING	CASING	CASI	NG WALL	SLOT	
2. DRILLING & CASING INFORMATION	FROM	то	DIAM (inches)		GRADE each casing string sections of screen		CON	NECTION TYPE pling diameter)	INSIDE DIAM. (inches)	TH	ICKNESS inches)	SIZE (inches	
& CA	+2	75	9 7/8	S	CHED. 40 PVC			INE/ 5 3/4	5		.250	N/A	
P SNI	75	95	9 7/8	S	CHED 40 PVC		SPL	INE/ 5 3/4	5		.250	.035	
DRILI													
2.											<u>.</u>		
	DEPTH	(feet bgl)	BORE HOLE	LIST ANNU	JLAR SEAL MATE RANGE B	RIAL AND		EL PACK SIZE-	AMOUNT		METHO		
IAL	FROM	то	DIAM. (inches)	*(if using Ce	ntralizers for Artes	ian wells- i	ndicate th	e spacing below)	(cubic feet)		PLACE		
TER	0	20	9 7/8			DLE PLUC			8		GRAV		
ANNULAR MATERIAL	20	95	9 7/8		3/8 WASH	IED GRA	VEL		31		GRAV	ITY	
INULA													
З.							5. (- 1 1 <sup>0</sup>						
FOR	OSE INTER	NAL USF		~		, t	~	WR-2	0 WELL RECORD	& LOG	(Version 09/2	22/2022)	
	ENO. P-	440	POD2		POD NO	0.	2	TRN		248	3		
LOC	CATION	em	01.33.	21.2	21			WELL TAG I	DNO. 2123	A	PAGE	1 OF 2	

	DEPTH (fee	t bgl)		COLOR AN	D TYPE OF MATERIAL I	ENCOUN	NTERED -		WA	TER	ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WATE	ER-BEARING CAVITIES ( oplemental sheets to fully o	OR FRAG	CTURE ZONE	,	BEAH	RING? / NO)	YIELD FOR WATER- BEARING ZONES (gpm)
	0	3	3		TOP SOIL BROWN				Y	✔ N	1
	3	10	7		CAKICHE WHITE	3-	an She y	1	Y	🖌 N	
	10	25	15		CLAY RED				Y	✓ N	
	25	35	10	1	SAND BROWN			See also	Y	🖌 N	
	35	47	12		CLAY TAN				Y	🗸 N	
T	47	60	13		SAND BROWN	18.3		ling the	Y	🖌 N	
4. HYDROGEOLOGIC LOG OF WELL	60	70	10	f a	CLAY TAN				Y	🖌 N	1. 1.1.
OF	70	78	8		ROCK WHITE				Y	🗸 N	
90	78	93	15		SAND & GRAVEL RE	ED	1. 1. 1. 1. 1.	~	Y	N	
ICI	93	95	2		RED & BLUE CLAY				Y	🖌 N	
LOG									Y	N	
EOI									Y	N	
ROC					a a serie en ante en ante des processes en ante ante ante ante ante ante ante a				Y	N	
UXH		24		y na pina na kali na k		1. 5			Y	N	
4.1			11/1						Y	N	
									Y	N	
			1.1.1					42 .	Y	N	
		22				6.5	5.		Y	N	
									Y	N	
									Y	N	
								10	Y	N	
	METHOD USE	ED TO ES	TIMATE YIELD	OF WATER-BEARIN	G STRATA:			TOTAL E	STI	MATED	
	D PUMP		R LIFT	BAILER	THER - SPECIFY:			WELL Y	IELI	O (gpm):	
NO	WELL TEST	and the second se			TA COLLECTED DURING				-		
TEST; RIG SUPERVISION	MISCELLANE	COUS INF	ORMATION: N//	A ON WATER FIRS	T ENCOUNTERED DU	JE TO D		<b>ITH MUD</b> SE DIT AP		i 2023 e	48:31
TEST	PRINT NAME	(S) OF DF	RILL RIG SUPER	VISOR(S) THAT PRO	VIDED ONSITE SUPERV	ISION O	F WELL CON	STRUCTIO	ON C	THER TH	IAN LICENSEE:
5.1	DUSTIN WIL	LIAMSC	N					al s			
6. SIGNATURE	CORRECT RE	CORD OF	THE ABOVE D	ESCRIBED HOLE AN DAYS AFTER COM	BEST OF HIS OR HER KN ND THAT HE OR SHE WII PLETION OF WELL DRII RRY E. JEWELL NAME	LL FILE			VITH		
							NIE 20	L DECC-	D		
	OCT DITEDNA	LUSE					WP-20 WE	I RECOR	D 8.		min (0/22/2022)
	$r ose internation P_U$	400	- 20D 2	)	POD NO. 7_		TRN NO.	71/2	Da Da	LOG (Ve	rsion 09/22/2022)

Released to Imaging: 7/31/2024 8:55:05 AM

Received by OCD: 7/26/2024 10:49:11 AM



Lea County

Drafted: mag

Checked: jwl

Date:

2/22/24

Released to Imaging: 7/31/2024 8:55:05 AM



USGS Home Contact USGS Search USGS

#### National Water Information System: Web Interface

**USGS Water Resources** 

Data Category: Groundwater Geographic Area: United States

GO

V

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 = • 321328103270601

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

Save file of selected sites to local disk for future upload

# USGS 321328103270601 24S.34E.10.42243

Available data for this site Groundwater: Field measurements

Lea County, New Mexico Hydrologic Unit Code 13070007 Latitude 32°13'28", Longitude 103°27'06" NAD27 Land-surface elevation 3,514 feet above NAVD88 The depth of the well is 93 feet below land surface. This well is completed in the Other aquifers (N99990THER) national aquifer. This well is completed in the Ogallala Formation (1210GLL) local aquifer.

#### Output formats

×

GO

Table of data

Tab-separated data

#### Graph of data

Reselect period



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions or Comments 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? USA.gov

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2024-02-22 09:55:13 EST 0.58 0.51 nadww01

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



# Sample Log

Date:

 Project:
 Raider Fed Com 101H Spill #1/Spill#2

 Project Number:
 19870
 Latitude:
 32.20917
 Longitude:
 -103.46866

 Sample ID
 PID/Odor
 Chloride Conc.
 GPS

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
NU-1       - $4/7C$ $5U-1$ - $4/7C$ $F(1-103')$ - $8/84$ $SW-2$ - $528$ $NU-2$ - $352$ $WU-1$ - $528$ $WU-2$ = $528$ $WU-3$ - $392$ $WU-2$ = $528$ $EU-3$ - $392$ $WU-2$ = $392$ $WU-2$ = $392$ $WU-2$ = $392$ $EU-3$ - $4/76$ $FL-407'$ = $4/76$ $FL-7$ - $4/76$	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
$NU-2$ - $352$ $EW-2$ - $392$ $WU-1$ - $528$ $FL-2 a3^1$ - $maggazz$ $SU-3$ - $31L$ $NU-3$ - $31L$ $NU-3$ - $31L$ $WU-2$ - $328$ $EU-3$ - $392$ $F1-4$ - $392$ $IUU-3$ - $480$ $F1-4a1'$ - $480$ $F1-5a7'$ - $480$	
$NU-2$ - $352$ $EW-2$ - $392$ $WU-1$ - $528$ $FL-2 a3^1$ - $mu 952$ $SU-3$ - $31L$ $NU-3$ - $31L$ $NU-3$ - $31L$ $WU-2$ - $328$ $UU-2$ - $528$ $EU-3$ - $392$ $F1-4a7'$ - $73C$ $F1-4a1'$ - $480$ $F1-4a7'$ - $480$	
$NU-2$ - $352$ $EW-2$ - $392$ $WU-1$ - $528$ $FL-2 a3^1$ - $mu 952$ $SU-3$ - $31L$ $NU-3$ - $31L$ $NU-3$ - $31L$ $WU-2$ - $328$ $UU-2$ - $528$ $EU-3$ - $392$ $F1-4a7'$ - $73C$ $F1-4a1'$ - $480$ $F1-4a7'$ - $480$	
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NW-3 $=$ 228         WW-2 $=$ 528         EW-3 $=$ 39.2         FL-3 $=$ 39.2         FL-4 $=$ 134.2         FL-5 $=$ 134.2         FL-5 $=$ 134.2         FL-5 $=$ 134.2         FL-5 $=$ 134.2         FL-601' $=$ 134.2         FL-601' $=$ 134.2         FL-7 $=$ 134.2         FL-7 $=$ 134.2         FL-7 $=$ 134.2         FL-7 $=$ 134.2         FL-8 $=$ 134.2	
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$\frac{f_{L-7}}{f_{L-8}} = \frac{480}{52}$	
$\frac{1}{1-8}\frac{1}{3}$ - $\frac{1}{80}$ - $\frac{1}{80}$	
FI-8a7' = mg	
FL-906" - 392	
FL-lock'' - 43L	
FL-11@6" - 292	
[(-12.0)] - 58	5,
FL-1702' - 480	
FL-140B' - 580	
FL-15 03' - 580	1
FL-16@3' - 144	
FL-17@4' = 508	
FC-1804' - 284	
F2-19 @4' - 392	
WW-4 - 292	
NU-9 - 580	
54-9 - 528	
NU-5 - $N/0$	
SU-5 - 292	
Sample Point = SP #1 @ ## etc Test Trench = TT #1 @ ## Resamples= SP #1 @ 5b d	or SW #1b
Floor = FL #1 etc     Stockpile = Stockpil	
Sidewall = SW #1 etc Soil Intended to be Deferred = SP #1 @ 4' In-Situ GPS Sample Points, Center o	
3	
Sw/mar 3	

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Project:

ţ,

Sample Log

Date:

-3/

Project Number: Latitude: Longitude: Sample ID PID/Odor Chloride Conc. GPS WID-S -392 111-10 ----292 FL-2004 occupier. 352 FL-21 Q41 with the second 528 F1-2204 431 -----F1-23041 397 FL-24 04 480 -FL-2504 292 -11)1)-1. 580 -NEU-23 99 ..... 5W-2B 792 edite. 1-1 1-23 dir. 144 J-2B 445-FL-2BY 2 See my --1.02 -500 -1965 atte 29a

Sample Point = SP #1 @ ## etc

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

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

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

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

GPS Sample Points, Center of Comp Areas



**Remediation Log** 

roject: Raider Fe	ed Com 101H Spill #1,	/Spill#2				
oject Number:	19870	Latitude:	32.20917	Longitude:	-103.	46866
					Yes	No
Confirmation of Acti	ve One Call? One Cal	l No.				
Confirmation of On-						
Date:		Note	S		Y	ds
	****Begin	<b>Remediation Ac</b>	tivities****		Out	In
6-14-24	Haul out	~			520	3
1-19-24	Houl aut				440	
-21-24	Haul in		*	a.		280
-24-24	Hareh in	е.			ster.	520
1-25-24	Head in					162
		8				
	-					
					·	
				2		
		3				
						-
		**Begin Backfill				
	t	mplete Remedia	tion Activities***	**		
					Total	Yds
					Out	In
					9-60	940
					Yes	No
ctures of Open Exca	avation Prior to Backf	fill				
	in Project Tracker?					
	in a loge ce macker!					

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### Appendix C Laboratory Analytical Reports



June 26, 2024

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

RE: RAIDER FED COM 101H SPILL #1

Enclosed are the results of analyses for samples received by the laboratory on 06/25/24 12:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/25/2024	Sampling Date:	06/21/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL - 6 @ 2' (H243772-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2024	ND	1.87	93.5	2.00	5.70	
Toluene*	<0.050	0.050	06/25/2024	ND	2.03	102	2.00	5.22	
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	2.05	103	2.00	4.61	
Total Xylenes*	<0.150	0.150	06/25/2024	ND	6.41	107	6.00	4.29	
Total BTEX	<0.300	0.300	06/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/26/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	203	102	200	5.05	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	212	106	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					
Surrogate: 1-Chlorooctane	85.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.9	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/25/2024	Sampling Date:	06/21/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL - 7 @ 4' (H243772-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2024	ND	1.87	93.5	2.00	5.70	
Toluene*	<0.050	0.050	06/25/2024	ND	2.03	102	2.00	5.22	
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	2.05	103	2.00	4.61	
Total Xylenes*	<0.150	0.150	06/25/2024	ND	6.41	107	6.00	4.29	
Total BTEX	<0.300	0.300	06/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/26/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	205	102	200	3.76	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	196	98.2	200	7.91	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					
Surrogate: 1-Chlorooctane	86.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/25/2024	Sampling Date:	06/21/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL - 19 @ 5' (H243772-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2024	ND	1.87	93.5	2.00	5.70	
Toluene*	<0.050	0.050	06/25/2024	ND	2.03	102	2.00	5.22	
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	2.05	103	2.00	4.61	
Total Xylenes*	<0.150	0.150	06/25/2024	ND	6.41	107	6.00	4.29	
Total BTEX	<0.300	0.300	06/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/26/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	205	102	200	3.76	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	196	98.2	200	7.91	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					
Surrogate: 1-Chlorooctane	85.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 7/26/2024 10:49:11 AM



### **Notes and Definitions**

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Etech Environmental		BILL TO		
Project Manager:	Joel Lowry		P.O. #:		
Address: 2617 V	2617 W Marland Blvd		Company:		
승	State: NM	Zip: 88240	Attn:		
le #:	(575) 264-9884 Fax #:		Address:		
Project #: 19870	Project Owner:	Permian Resources	City:		
ame:	Raider Fed Com 101H Spill #1		State: Zip:		
2	GPS:(32.20917, -103.46866)		Phone #:		
Sampler Name:	Martin Sepulveda	veda	1		
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	G	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER : DATE	Chloride TPH	BTEX 8021
10701	F1-1 0 2.	- # 0	×	X 4 0051	×
0	1 - 1 @ 4.	< X	×	K10 77	*
009	Er - 186 2.	( 	× }	KW T T	*
PLEASE NOTE: Liability and Dama analyses. Al claims including those service. In no event shall Cardinal b	ges. Cardinal's lability and client's exclusive ren for negligence and any other cause whatsoever e liable for incidental or consequental damages.	ncluding without limitation, business interruptions, loss of tracks or to a solve of the amount paid by the cleant for the including without limitation, business interruptions, loss of tracks include in actionated tracks or solve of the above tracks of tracks or to act the above tracks of tracks or to act the above tracks of tracks or to act t	out shall be immed to the amount paid by the client for the evived by Cardinal within 30 days after completion of the a column of use, or footfs incurred by client, its subsidiaries, and more serve of the shows scheder become or otherwise	clent for the applicable subsidiaries, subsidiaries, srotenvise.	
Relinquished By:	ned By:	Received By:		Phone Result: □ Yes Fax Result: □ Yes REMARKS: Email (	Yes No Add'I Fravite     Yes Add'I Fax #: Email copy of COC and results to: PM@etechenv.com
Delivered By: (Circle One)	i _			Bus	) HC VS
Sampler - UPS -	F	Sample Condition Cool Intact	ttion CHECKED BY:		



June 25, 2024

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

RE: RAIDER FED COM 101H SPILL #1

Enclosed are the results of analyses for samples received by the laboratory on 06/24/24 16:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/24/2024	Sampling Date:	06/24/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: EW - 2B (H243751-01)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2024	ND	1.94	97.1	2.00	1.06	
Toluene*	<0.050	0.050	06/25/2024	ND	1.91	95.7	2.00	1.92	
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.95	97.5	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.71	95.2	6.00	3.03	
Total BTEX	<0.300	0.300	06/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/25/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	179	89.6	200	1.73	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	177	88.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					
Surrogate: 1-Chlorooctane	101	48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/24/2024	Sampling Date:	06/24/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: NW - 2B (H243751-02)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2024	ND	1.94	97.1	2.00	1.06	
Toluene*	<0.050	0.050	06/25/2024	ND	1.91	95.7	2.00	1.92	
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.95	97.5	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.71	95.2	6.00	3.03	
Total BTEX	<0.300	0.300	06/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/25/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	179	89.6	200	1.73	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	177	88.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/24/2024	Sampling Date:	06/24/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: SW - 2B (H243751-03)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2024	ND	1.94	97.1	2.00	1.06	
Toluene*	<0.050	0.050	06/25/2024	ND	1.91	95.7	2.00	1.92	
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.95	97.5	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.71	95.2	6.00	3.03	
Total BTEX	<0.300	0.300	06/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/25/2024	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	06/25/2024	ND	179	89.6	200	1.73	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	177	88.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					
Surrogate: 1-Chlorooctane	104 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/24/2024	Sampling Date:	06/24/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: WW - 2B (H243751-04)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2024	ND	1.94	97.1	2.00	1.06	
Toluene*	<0.050	0.050	06/25/2024	ND	1.91	95.7	2.00	1.92	
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.95	97.5	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.71	95.2	6.00	3.03	
Total BTEX	<0.300	0.300	06/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/25/2024	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	179	89.6	200	1.73	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	177	88.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.5	% 49.1-14	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 SM4500CI-B does not require samples be received at or below 6°C

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

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

### Received by OCD: 7/26/2024 10:49:11 AM

Page 7 of 7

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### *Released to Imaging: 7/31/2024 8:55:05 AM*

Page 52 of 148



June 24, 2024

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

RE: RAIDER FED COM 101H SPILL #1

Enclosed are the results of analyses for samples received by the laboratory on 06/21/24 14:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/21/2024	Sampling Date:	06/21/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: NW 6 @ 4' (H243705-01)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2024	ND	2.01	101	2.00	2.29	
Toluene*	<0.050	0.050	06/23/2024	ND	2.09	104	2.00	7.25	
Ethylbenzene*	<0.050	0.050	06/23/2024	ND	2.16	108	2.00	7.89	
Total Xylenes*	<0.150	0.150	06/23/2024	ND	6.58	110	6.00	8.01	
Total BTEX	<0.300	0.300	06/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/24/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	203	101	200	0.158	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	184	92.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/21/2024	Sampling Date:	06/21/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: WW 4 (H243705-02)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2024	ND	2.01	101	2.00	2.29	
Toluene*	<0.050	0.050	06/23/2024	ND	2.09	104	2.00	7.25	
Ethylbenzene*	<0.050	0.050	06/23/2024	ND	2.16	108	2.00	7.89	
Total Xylenes*	<0.150	0.150	06/23/2024	ND	6.58	110	6.00	8.01	
Total BTEX	<0.300	0.300	06/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/24/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	203	101	200	0.158	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	184	92.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					
Surrogate: 1-Chlorooctane	96.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	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 SM4500CI-B does not require samples be received at or below 6°C

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

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

| Time:                       | Relinquished By: Date: |              | induinate for inclusion and any | Damages. Cardinal's liability and clie<br>those for negligence and any other c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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All claims including who for related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated resons or otherwise.         Relinquished By:       Imme:       Received By:       Received By:       Received By: <td>TEASE NOTE: Liability and Damages. Cardinal's liability and client's acclusive remedy for any cliam asking whether based in contract or tort, shall be limited to the amount paid by the client for the         anayees. All claims including-those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within 30 days after completion of the applicable         service. In no event shall for incidental or consequental damages, including whoul imatian, unless interruptions, loss of used upon any of the above stated reasons or otherwise.       Not client for the applicable         Relinquished BY:       Date:       Received BY:       Provide BY:       Add'I Phone #:         Relinquished BY:       Date:       Received BY:       Phone BY:       Add'I Fax #:         Relinquished BY:       Date:       Received BY:       Bill rush charges to Etech C/O Joel Lowry and analytical charges to</td> <td>and by:       Phone Result:       Yes       No       Add'I Phone #:         Fax Result:       Yes       No       Add'I Fax #:         RUSH SAMPLES - 24 HOUR       Bill rush charges to Etech C/O Joel Lowry and analytical charges to</td> <td>a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a</td> <td>a     a     a     a     a     a     a     a     a     a     a     a     a     a     a     a     b     b     b     b     b     b     b     b     b     b     b     b     b     b     b     b     b     b     b     b     b     b     b     b     b     b     b     b     b     b     b     b     b     b     b     b     b     c     b     c     b     c     b     c     b     c</td> <td>Image: Sector Sector</td> <td>Image: Sector Sector</td> <td>X     X     X     X       X     X     X     X       X     X     X     X       X     X     X     X       X     X     X     X       X     X     X     X       X     X     X     X       X     X     X     X       X     X     X     X       X     X     X     X       With the other of the construction of the annual paid by the cleart for the applicable     X     X       Model by:     Other or of the stand within 30 days after completion of the applicable.     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SAMPLING       WASTEWATER     OIL     OIL       SOIL     OIL     OIL       SOIL     OIL     DATE       TIME     DATE     TIME       VASTEWATER     6/21/24     X       VASTEWATER     6/21/24     X       SOIL     OIL     SUUDGE       OTHER:     6/21/24     X       VASTEWATER     6/21/24     X       VASTEWATER     6/21/24     X       Solution     Solution     6/21/24       VASTEWATER     Solution       Notes ander based op any dbs based of the target       Notes ander by Calculater to the date for the solution and a solution and the based op any dbs based of the target       Notes and energy of the solution and the based op any dbs based of the target       Notes and energy of the solution and the based op any dbs based of the target       Notes and energy of the solution and the based op any dbs based of the target       Notes and energy of the solution and the based op any dbs based of the target       Notes and energy of the solution and the based op any dbs based of the target       Notes and energy of the solution and the based op any dbs based of the target       Notes and the target by Calculater to the solution and the based op any dbs base</td><td>Phone #:     Preservi     SAMPLING       MATRIX     BATE     TIME       MATRIX     GIZ1/24     X       MATRIX     GIZ1/24     X       MATRIX     GIZ1/24     X       Name based to contract pathy braceler brace     GIZ1/24     X       Name based to contract pathy braceler brace     GIZ1/24     X       Name based door any of the above based on any of the above</td><td>State:     Zip:       MATRIX     Fax #:       Phone #:     Phone #:<td>an Resources     City:       Phone #:     Ip:       Phone #:     Ip:       Phone #:     Ip:       Phone #:     Ip:       Provide     Ip:       Prov</td><td>an Resources     Address:       Phone #:     Zip:       Phone #:     Zip:</td><td>an Resources     Address:       minescources     City:       Parter     Fax #:       Parter     Parter       Parter     Parter   <!--</td--><td>an Resources       Company       SEE REMARKS         Attn::       State::       Zip::         State::       Zip::       Phone #:         Prove       State::       Zip::         Prove       State::       Prove         State::       State::       State::     <td>Image: Production of the second se</td><td>BILL TO       Andre Solution       P.O. #:       D.O. TE       TIME       OD. TE       TIME       D.O. TE       TIME       D.O. #:       P.O. #:       O.D. #:       P.O. #:       O.D. #:       P.O. #:       O.D. #:       P.O. #:       P.O. #:       P.O. #:       P.O. #:   &lt;</td></td></td></td></tr<> | Fax #:     Fax #:     CI       MATRX     PRESERV.     SAMPLING       WASTEWATER     OIL     OIL       SOIL     OIL     OIL       SOIL     OIL     DATE       TIME     DATE     TIME       VASTEWATER     6/21/24     X       VASTEWATER     6/21/24     X       SOIL     OIL     SUUDGE       OTHER:     6/21/24     X       VASTEWATER     6/21/24     X       VASTEWATER     6/21/24     X       Solution     Solution     6/21/24       VASTEWATER     Solution       Notes ander based op any dbs based of the target       Notes ander by Calculater to the date for the solution and a solution and the based op any dbs based of the target       Notes and energy of the solution and the based op any dbs based of the target       Notes and energy of the solution and the based op any dbs based of the target       Notes and energy of the solution and the based op any dbs based of the target       Notes and energy of the solution and the based op any dbs based of the target       Notes and energy of the solution and the based op any dbs based of the target       Notes and energy of the solution and the based op any dbs based of the target       Notes and the target by Calculater to the solution and the based op any dbs base | Phone #:     Preservi     SAMPLING       MATRIX     BATE     TIME       MATRIX     GIZ1/24     X       MATRIX     GIZ1/24     X       MATRIX     GIZ1/24     X       Name based to contract pathy braceler brace     GIZ1/24     X       Name based to contract pathy braceler brace     GIZ1/24     X       Name based door any of the above based on any of the above | State:     Zip:       MATRIX     Fax #:       Phone #:     Phone #: <td>an Resources     City:       Phone #:     Ip:       Phone #:     Ip:       Phone #:     Ip:       Phone #:     Ip:       Provide     Ip:       Prov</td> <td>an Resources     Address:       Phone #:     Zip:       Phone #:     Zip:</td> <td>an Resources     Address:       minescources     City:       Parter     Fax #:       Parter     Parter       Parter     Parter   <!--</td--><td>an Resources       Company       SEE REMARKS         Attn::       State::       Zip::         State::       Zip::       Phone #:         Prove       State::       Zip::         Prove       State::       Prove         State::       State::       State::     <td>Image: Production of the second se</td><td>BILL TO       Andre Solution       P.O. #:       D.O. TE       TIME       OD. TE       TIME       D.O. TE       TIME       D.O. #:       P.O. #:       O.D. #:       P.O. #:       O.D. #:       P.O. #:       O.D. #:       P.O. #:       P.O. #:       P.O. #:       P.O. #:   &lt;</td></td></td> | an Resources     City:       Phone #:     Ip:       Phone #:     Ip:       Phone #:     Ip:       Phone #:     Ip:       Provide     Ip:       Prov | an Resources     Address:       Phone #:     Zip:       Phone #:     Zip: | an Resources     Address:       minescources     City:       Parter     Fax #:       Parter     Parter       Parter     Parter </td <td>an Resources       Company       SEE REMARKS         Attn::       State::       Zip::         State::       Zip::       Phone #:         Prove       State::       Zip::         Prove       State::       Prove         State::       State::       State::     <td>Image: Production of the second se</td><td>BILL TO       Andre Solution       P.O. #:       D.O. TE       TIME       OD. TE       TIME       D.O. TE       TIME       D.O. #:       P.O. #:       O.D. #:       P.O. #:       O.D. #:       P.O. #:       O.D. #:       P.O. #:       P.O. #:       P.O. #:       P.O. #:   &lt;</td></td> | an Resources       Company       SEE REMARKS         Attn::       State::       Zip::         State::       Zip::       Phone #:         Prove       State::       Zip::         Prove       State::       Prove         State::       State::       State:: <td>Image: Production of the second se</td> <td>BILL TO       Andre Solution       P.O. #:       D.O. TE       TIME       OD. TE       TIME       D.O. TE       TIME       D.O. #:       P.O. #:       O.D. #:       P.O. #:       O.D. #:       P.O. #:       O.D. #:       P.O. #:       P.O. #:       P.O. #:       P.O. #:   &lt;</td> | Image: Production of the second se | BILL TO       Andre Solution       P.O. #:       D.O. TE       TIME       OD. TE       TIME       D.O. TE       TIME       D.O. #:       P.O. #:       O.D. #:       P.O. #:       O.D. #:       P.O. #:       O.D. #:       P.O. #:       P.O. #:       P.O. #:       P.O. #:   < |

### Received by OCD: 7/26/2024 10:49:11 AM

Released to Imaging: 7/31/2024 8:55:05 AM



June 20, 2024

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

RE: RAIDER FED COM 101H SPILL #1

Enclosed are the results of analyses for samples received by the laboratory on 06/19/24 8:43.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL 20 @ 4' (H243587-01)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	2.24	112	2.00	2.85	
Toluene*	<0.050	0.050	06/19/2024	ND	2.14	107	2.00	5.98	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	2.12	106	2.00	5.53	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	6.70	112	6.00	5.67	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/19/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL 21 @ 4' (H243587-02)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	2.24	112	2.00	2.85	
Toluene*	<0.050	0.050	06/19/2024	ND	2.14	107	2.00	5.98	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	2.12	106	2.00	5.53	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	6.70	112	6.00	5.67	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/19/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	105 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL 22 @ 4' (H243587-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	2.24	112	2.00	2.85	
Toluene*	<0.050	0.050	06/19/2024	ND	2.14	107	2.00	5.98	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	2.12	106	2.00	5.53	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	6.70	112	6.00	5.67	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/19/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL 23 @ 4' (H243587-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	2.24	112	2.00	2.85	
Toluene*	<0.050	0.050	06/19/2024	ND	2.14	107	2.00	5.98	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	2.12	106	2.00	5.53	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	6.70	112	6.00	5.67	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/19/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL 24 @ 4' (H243587-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	2.24	112	2.00	2.85	
Toluene*	<0.050	0.050	06/19/2024	ND	2.14	107	2.00	5.98	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	2.12	106	2.00	5.53	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	6.70	112	6.00	5.67	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/19/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL 25 @ 4' (H243587-06)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	1.67	83.4	2.00	15.5	
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	zed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/19/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: NW 4 (H243587-07)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	1.67	83.4	2.00	15.5	
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/19/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	98.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: NW 5 (H243587-08)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	1.67	83.4	2.00	15.5	
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/19/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	107 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: EW 4 (H243587-09)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	1.67	83.4	2.00	15.5	
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/19/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: SW 4 (H243587-10)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	1.67	83.4	2.00	15.5	
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/19/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	89.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.4	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: SW 5 (H243587-11)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	1.67	83.4	2.00	15.5	
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 \$	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/19/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	97.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: WW 5 (H243587-12)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	1.67	83.4	2.00	15.5	
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/19/2024	ND	416	104	400	0.00	QM-07
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					
Surrogate: 1-Chlorooctane	101	48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 :	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: WW 6 (H243587-13)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	1.67	83.4	2.00	15.5	
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3	
Total BTEX	<0.300	0.300	06/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/19/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					
Surrogate: 1-Chlorooctane	98.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 7/26/2024 10:49:11 AM



### **Notes and Definitions**

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

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager
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Project Location:       32.20917, -103.46866         Sampler Name:       Martin Sepulveda         FOR LAB USE ONLY       Sample I.D.         Lab I.D.       Sample I.D.         I H       FL 20 @ 4'         I FL 21 @ 4'       FL 22 @ 4'         I FL 23 @ 4'       FL 23 @ 4'         I FL 25 @ 4'       FL 25 @ 4'         I H       SW 4         I H SW 4       SW 4         I H SW 5       SW 4         I H SW 6       SW 4         I H SW 7       Delivered By:       Date:         I Delivered By:       Circle Onel       -7.1.         FORM-006       FORM-006	Project Name:	Project #:	Phone #:	City:	Address:	olec	oiec .	m	
Marti Marti FL2 FL2 FL2 FL2 FL2 FL2 FL2 FL2 FL2 FL2		00	(575	lob	S: 261/	L IVI dI la Uca	Proiect Manager:	Company Name:	AF
ion:       32.20917, -103.46866         e:       Martin Sepulveda         sample I.D.       Sample I.D.         FL 20 @ 4'       FL 21 @ 4'         FL 21 @ 4'       FL 23 @ 4'         FL 23 @ 4'       FL 23 @ 4'         FL 25 @ 4'       FL 25 @ 4'         FL 26 @ 4'       FL 26 @ 4'         FL 27 @ 4'       FL 26 @ 4'         FL 26 @ 4'       FL 26 @ 4'         FL 27 @ 4'       FL 26 @ 4'         FL 26 @ 4'       FL 26 @ 4'         FL 27 @ 5 @ 4'       FL 26 @ 4'         FL 26 @ 4'       FL 26 @ 4'         FL 27 @ 5 @ 4'       FL 26 @ 4'         Sw 4       FL 26 @ 4'         Sw 4       FL 27 @ 4'         Sw 4       FL 26 @ 4'         FL 27 @ 4'       FL 26 @ 4'         FL 28 @ 4'       FL 26 @ 4'         Sw 4       FL 26 @ 4' <td>Raider Fed Com 101H Spill #1</td> <td>70 Paidar Ead Com 10</td> <td>(575) 264-9884 19870</td> <td>1880 196</td> <td>/ West Marland</td> <td>7 What Marland</td> <td></td> <td></td> <th>RDINAL LAB 101 East Marlanc (575) 393-2326</th>	Raider Fed Com 101H Spill #1	70 Paidar Ead Com 10	(575) 264-9884 19870	1880 196	/ West Marland	7 What Marland			RDINAL LAB 101 East Marlanc (575) 393-2326
+ D Reference	1H Spill #1	Project Owner:	Fax #:	State: NM				Etech Environmental & Safety Solutions,	RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
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Company Name:     Etech Environmental & Safety Solutions, Inc.     BILL TO       Project Manager:     Joel Lowry     P.O. #:       Address:     2617 West Marland     Company SEE REMARKS       City:     Hobbs     State: NM     Zip: 88240       Phone #:     (575) 264-9884     Fax #:     Address:       Project Name:     Raider Fed Com 101H Spill #1     Permian Resources       City:     Hobbs     State:     Zip:       Project Name:     Raider Fed Com 101H Spill #1     State:     Zip:       Project I Doction:     32 20917 -103 46866     Phone #:     Original Address:
: Joel Lowry       P.O. #:         West Marland       State: NM         State: NM       Zip: 88240         Attn:         ) 264-9884       Fax #:         ) 264-9884
ess:       2617 West Marland       Company       SEE REMARKS         Hobbs       State:       NM       Zip:       88240       Attn:         He #:       (575) 264-9884       Fax #:       Address:       Address:         Le #:       19870       Project Owner:       Permian Resources       City:         Act Name:       Raider Fed Com 101H Spill #1       State:       Zip:         Act Ionation:       32 20917 -103 46866       Phone #:       On 15M()
Hobbs         State: NM         Zip: 88240         Attn:           Ie #:         (575) 264-9884         Fax #:         Address:           Act #:         19870         Project Owner:         Permian Resources           Act Name:         Raider Fed Com 101H Spill #1         State:         Zip:           Act Location:         32 20917 -103 46866         Phone #:         Original
ie #:       (575) 264-9884       Fax #:       Address:         ict #:       19870       Project Owner:       Permian Resources       City:         ict Name:       Raider Fed Com 101H Spill #1       State:       Zip:       City:         ict Location:       32 20917 -103 46866       Phone #:       Or 100 46866       Phone #:       Or 100 46866
19870       Project Owner:       Permian Resources       City:         Ime:       Raider Fed Com 101H Spill #1       State:       Zip:         State:       32 20917 -103 46866       Phone #:       oride
Ime:         Raider Fed Com 101H Spill #1         State:         Zip:         e           Ime:         32 20917 -103 46866         Phone #:         oride         015M
23 20917 -103 46866 Phone #:
artin Sepulveda Fax #: Chi PH
MATRIX PRESERV. SAMPLING
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1 X X 6/18/24
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including third limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequental damages, including third limitation, business interruptions, loss of use, or the above stated reasons or otherwise.
Time:       Time:       Bill rush charges to Etech C/O Joel Lowry and analytical charges to Etech C/O Joel Lowry anal

Page 17 of 17



June 24, 2024

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

RE: RAIDER FED COM 101H SPILL #1

Enclosed are the results of analyses for samples received by the laboratory on 06/18/24 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL 6 @ 1' (H243566-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	2.11	106	2.00	0.905	
Toluene*	<0.050	0.050	06/21/2024	ND	2.05	102	2.00	1.38	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	2.03	101	2.00	2.00	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.37	106	6.00	1.99	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/20/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	53.2	10.0	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	2720	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	591	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	132 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	204 9	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL 7 @ 3' (H243566-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	GC-NC
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	GC-NC, QM-07
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	324	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/20/2024	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	131	10.0	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	3670	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	904	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	132	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	178	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL 8 @ 3' (H243566-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/20/2024	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	131	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	138	% 49.1-14	8						

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### Analytical Results For:

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

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL 9 @ 0.5' (H243566-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	124 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127 9	% 49.1-14	8						

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### Analytical Results For:

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

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL 10 @ 0.5' (H243566-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/20/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	116 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL 11 @ 0.5' (H243566-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	121	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	0						

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

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL 12 @ 2' (H243566-07)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	131 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	138 9	% 49.1-14	8						

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### Analytical Results For:

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

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL 13 @ 3' (H243566-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	111 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL 14 @ 3' (H243566-09)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/20/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	111 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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### Analytical Results For:

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

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL 15 @ 3' (H243566-10)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/20/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	126 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	137 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL 16 @ 3' (H243566-11)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/20/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					
Surrogate: 1-Chlorooctane	114	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL 17 @ 4' (H243566-12)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	216	108	200	2.07	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	218	109	200	0.313	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL 18 @ 4' (H243566-13)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	216	108	200	2.07	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	218	109	200	0.313	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					
Surrogate: 1-Chlorooctane	125 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123 9	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL 19 @ 4' (H243566-14)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	GC-NC
Ethylbenzene*	0.370	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	GC-NC1
Total Xylenes*	2.46	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	GC-NC1
Total BTEX	2.83	0.300	06/21/2024	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	169	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	117	10.0	06/20/2024	ND	216	108	200	2.07	
DRO >C10-C28*	1630	10.0	06/20/2024	ND	218	109	200	0.313	
EXT DRO >C28-C36	255	10.0	06/20/2024	ND					
Surrogate: 1-Chlorooctane	137	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	137	% 49.1-14	8						

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

# ARDINAL LABORATORIES

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# Received by OCD: 7/26/2024 10:49:11 AM

Company Name: Et	Etech Environmental & Safety Solutions, Inc.	tions	, Inc.	BILL TO	C			ANAI VOIC	
Project Manager: Jo	Joel Lowry					_	-		
Address: 2617 West Marland	Marland		0	Company Permian	Permian Resources				
dop	State: NM	Zip	Zip: 88240	z	ery Floyd		_		
	)884 Fax #:		A	ess:					
Project #: 19870	Project Owner:	a	Permian Resources c	City:			-		
Project Name: Raider	Raider Fed Com 101H Spill #1		S	State: Zip:			1B)		
Project Location: 32.	32.20917, -103.46866		U	ŧ				_	
Sampler Name: Martin Sepulveda	Sepulveda		77	Fax #:		hlo	H (8		
FOR LAB USE ONLY			L			-		-	
		COLUMN TWO IS NOT THE		PRESERV. SAM	SAMPLING				
Lab I.D.	Sample I.D.	(G)RAB OR (C)	# CONTAINERS GROUNDWATE WASTEWATER SOIL DIL SLUDGE DTHER :	ACID/BASE: CE / COOL	TIME				
FL 6 @	) 1'	_	X		-	×	×		
L FL7@	31	С	1 X			+	+		
5 FL 8 @ 3'	3'	С	1 ×	X 6/17/24		+	+		
H FL 9 @ 0.5	0.5'	С	1 X	X 6/17/24			-		
S IL 10 @ 0.5	0.5	0	1 ×	X 6/17/24		X X	×		
	11 @ 0.5	C	1 ×	X 6/17/24		X X	×		
		-	1 ×	X 6/17/24		X X	×		
		C	1 ×	X 6/17/24		X X	×		
2 2		-		X 6/17/24	×	X	×		
LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive nalyses. All claims including those for negligence and any other cause whatso	rem	C	1 X arising whether based in contract or tort	X 6/17/24 Sther based in contract or brt, shall be limited to the amount paid area mode in using a contract or brt, shall be limited to the amount paid	aid by the client for the	×	×		
service. In no event shall Cardinal be liable for incidental or affiliates or successors arising out of or related to the perfor Relinouished. Rv.	ages,	vithout li rdinal, re	including without limitation, business interruptions are conversely service on professions and so the applicable including without limitation, business interruptions (or loss of porfiss incurred by dient, its subsidiaries, inder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	use, or loss of profits incurred b use or loss of profits incurred b	riter completion of the app y dient, its subsidiaries, reasons or otherwise.	licable			
Rofinquished By	UN TIME: 18-24	Rec	Received By:	Madd of	Phone Result: Fax Result: REMARKS:		□Yes □ □Yes □	No Add'l Phone #: No Add'l Fax #:	<b>持</b>
/.			oirou by.		2				
Delivered By: (Circle One) Sampler - UPS - Bus - Other	0ne) #	140	Sample Condition Cool Intact Yes Yes	CHECKED BY: (Initials)	Please emai	l copy	of COC	and results t	Please email copy of COC and results to pm@etechenv.com.

## Page 91 of 148

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 18 of 18

## Received by OCD: 7/26/2024 10:49:11 AM

Released to Imaging: 7/31/2024 8:55:05 AM

	Licent Litvilorinierital & Salety Solutions, Inc.		BILL TO	•			ANALYSIS REQUEST
an	NV.		P.O. #:		_	_	
ess			Company Permian	Permian Resources			
dop	State: NM Zip: 88240		~	ry Floyd			
	Fax #:		Address:		_		
Project #: 19870	Project Owner: Pen	Permian Resources	City:		_		
Project Name: Raider Fed Co	Raider Fed Com 101H Spill #1		State: Zin:			_	
Project Location: 32.20917,	32.20917, -103.46866		*	ride		015 8021	
amnler Name- Martin Senulvi	10An		Phone #:		_		
complet Name, Manual Sepulveda	Peda		Fax #:	Ch	-		
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING				
Lab I.D. Sar	(G)RAB OR (C)OMP.	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER :	TIME			
FL 16 @ 3'	_	×	X I	1		<	
12 FL 17 @ 4'	C 1	×			+	+	
15 FL 18 @ 4"	C 1	×	_		× ;	× >	
IU FL 19 @ 4"	-	<			+	+	
		>	X 6/17/24		×	×	
PLEASE NOTE: Liability and Damages, Cardina's lia	TEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the	whether based in contract or to	whether based in contract or tort, shall be limited to the amount paid by the client for the	d hu the client for the			
affiliates or successors arising out of or related to the perform Relinquished By:	Titliates or successors arising out of or related to the performance of services hereunder by Cardinal, repartiess of whether such dair Relinquished By: Date; <-7.4 Received By:	d By:	is based upon any of the above stated reasons or otherwise.	dient, its subsidiaries, asons or otherwise. Phone Result:			
Relingershed By:	C-18-24 Time: Date: Time:	By: Unital	ellelate	Fax Result: REMARKS:	□ Yes		<ul> <li>Add'l Phone #:</li> <li>Add'l Fax #:</li> </ul>
Sampler - UPS - Bus - Other:	-57.1° #140	Sample Condition Cool Intact Yes Yes No No No	CHECKED BY: (Initials)	Please email copy of	сору		COC and results to pm@etechenv.com.

Page 92 of 148



June 20, 2024

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

RE: RAIDER FED COM 101H SPILL #1

Enclosed are the results of analyses for samples received by the laboratory on 06/14/24 15:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL 1 @ 3' (H243475-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.71	85.5	2.00	7.94	
Toluene*	<0.050	0.050	06/18/2024	ND	1.77	88.5	2.00	5.99	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.83	91.3	2.00	5.00	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.47	91.1	6.00	5.50	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

### **Cardinal Laboratories**

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL 2 @ 3' (H243475-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.71	85.5	2.00	7.94	
Toluene*	<0.050	0.050	06/18/2024	ND	1.77	88.5	2.00	5.99	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.83	91.3	2.00	5.00	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.47	91.1	6.00	5.50	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	97.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	6 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL 3 @ 4' (H243475-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.71	85.5	2.00	7.94	
Toluene*	<0.050	0.050	06/18/2024	ND	1.77	88.5	2.00	5.99	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.83	91.3	2.00	5.00	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.47	91.1	6.00	5.50	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	95.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL 4 @ 3' (H243475-04)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.71	85.5	2.00	7.94	
Toluene*	<0.050	0.050	06/18/2024	ND	1.77	88.5	2.00	5.99	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.83	91.3	2.00	5.00	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.47	91.1	6.00	5.50	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: FL 5 @ 3' (H243475-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.71	85.5	2.00	7.94	
Toluene*	<0.050	0.050	06/18/2024	ND	1.77	88.5	2.00	5.99	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.83	91.3	2.00	5.00	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.47	91.1	6.00	5.50	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128	% 49.1-14	8						

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: NW 1 (H243475-06)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.71	85.5	2.00	7.94	
Toluene*	<0.050	0.050	06/18/2024	ND	1.77	88.5	2.00	5.99	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.83	91.3	2.00	5.00	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.47	91.1	6.00	5.50	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: NW 2 (H243475-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	681	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	160	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	135	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: NW 3 (H243475-08)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/18/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

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### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: EW 1 (H243475-09)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/18/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	99.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: EW 2 (H243475-10)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/18/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	390	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	91.9	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	101 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	129 9	% 49.1-14	8						

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: EW 3 (H243475-11)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/18/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	94.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: SW 1 (H243475-12)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/18/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: SW 2 (H243475-13)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/18/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	240	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	53.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: SW 3 (H243475-14)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/18/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

### Sample ID: WW 1 (H243475-15)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/18/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	93.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager


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

## Analytical Results For:

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

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

#### Sample ID: WW 2 (H243475-16)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/18/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	415	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	107	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

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#### \*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

## Analytical Results For:

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

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

## Sample ID: WW 3 (H243475-17)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/18/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	196	98.2	200	1.97	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	205	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	114 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	49.1-14	8						

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#### \*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

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

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

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#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clent'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 whother is subsidiaries, affiliates or successor arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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All claims including those liable for incidental or context spail Cardinal be liable for incidental or context arising out of or related tyme performants in the set of the performants. | J     FL 3 @ 4'       J     FL 4 @ 3'       G     FL 5 @ 3'       I     NW 1       J     NW 2       B     NW 3       G     EW 1       ID     EW 2       ID     EW 2       ID     EW 2 | SE NOTE- Itability and Demages: Cardinal's liability and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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Phone Result:       Time:     Time:     Phone Result:     Fax Result: | those for negligence and any other cause whatcower shall be deemed waived universe mode in the deemed by Cardinal without on the event of the above shale for incidental or consequential damages, including without limitation, business interruptions, loss of profits incurred by client. It is subsidiated reasons or otherwise.         out of or related type performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.         Out of or related type performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.         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Image:       Date:       Received By:       Fax Result:         Time:       Date:       Received By:       Fax Result:         Time:       Time:       Phone Result:       Phone Result:         Time:       Received By:       Fax Result:       Phone Result:         Time:       Date:       Received By:       Phone Result:</td> <td>Image:       C       1       X       6/13/24       X         Image:       C       1       X       6/13/24       X         Image:       C       1       X       6/13/24       X         Image:       Cardinal's lability and cilent's exclusive remedy for any cilin arising whether based in contract or tort, shall be limited to the amount paid by the cilent for the paid by the cilent for the application being and received by Cardinal whith 30 days after completion of the application of realard type performance of services hereunder by Cardinal, business interruptions, loss of profits incurred by cilent, its subsidiaries, out of or related type performance of services hereunder by Cardinal, negatiless of whether such cilain is based upon any of the above stated reasons or ofhensies.       Phone Result:         Image:       Date:       Received By:       Fax Result:         Time:       Received By:       Fax Result:         Time:       Received By:       Fax Result:         Time:       Date:       Received By:       Fax Result:         Time:       Received By:       Fax Result:       Fax Result:</td> <td>WW 2       C       1       X       6/13/24       X         WW 3       C       1       X       6/13/24       X         WW 3       C       1       X       6/13/24       X         WW 2       C       1       X       6/13/24       X         W 2       Consequental damages, including whether based in contract or tort, shall be limited to the amount paid by the client for the anount paid by the client for the anount paid by client, its substainies, including whother timetion, business interruptions, loss of use, or loss of profits incurred by client, its substainies, tabulatines, client for the above state reasons or otherwise.         Image:       Date:       Time:       State Control       Phone Result:         Fax Result:       Fax Result:       Fax Result:       Fax Result:         Fax Result:       Received By:       Fax Result:       Remarks:         Time:       D</td> <td>IVU 1       C       1       X       I       X       6/13/24       X         IVU 2       C       1       X       I       X       6/13/24       X         IVU 3       C       1       X       I       X       6/13/24       X         IVU 3       C       1       X       I       X       6/13/24       X         IVU 2       C       1       X       I       X       6/13/24       X         IVU 2       C       1       X       I       X       6/13/24       X         IVU 2       C       1       X       I       X       6/13/24       X         IVU 2       C       1       X       I       X       6/13/24       X         IVU 2       C       1       X       I       X       6/13/24       X         IVU 2       C       1       X       I       X       6/13/24       X         IVU 2       Calinal balance of realide tamages, including whout limitaion, bases interruptors, loss of use, or los of polits incurred by ficant its subsidiate.       X       6/13/24       X         Ivu of or related tamages including whout limitaion, basies interruptors, loss of use, or los of polits i</td> <td>L       5       0       1       X       I       X       6/13/24       X         IW       1       C       1       X       I       X       6/13/24       X       X         IW       2       C       1       X       I       X       6/13/24       X       X         IW       2       C       1       X       I       X       6/13/24       X       X         IW       2       C       1       X       I       X       6/13/24       X       X         IW       2       C       1       X       I       X       6/13/24       X       X         IW       2       C       1       X       I       X       6/13/24       X       X         IW       2       C       1       X       I       X       6/13/24       X       X         IW       2       C       1       X       I       X       6/13/24       X       X         IW       2       C       1       X       I       X       6/13/24       X       X         IW       2       C       1       X<td>L4 @ 3'       C       1       X       I       S       6/13/24       X         IL5 @ 3'       C       1       X       C       1       X       6/13/24       X       X         IW1       C       1       X       C       1       X       6/13/24       X       X         IW2       C       1       X       I       X       6/13/24       X       X         IW2       C       1       X       I       X       6/13/24       X       X         IW2       C       1       X       I       X       6/13/24       X       X         IW2       C       1       X       I       X       6/13/24       X       X         IW2       C       1       X       I       X       6/13/24       X       X         IW2       C       1       X       I       X       6/13/24       X       X         IW2       C       1       X       Intel to the anout paid by the client or the anout paid by client, is subditainies.         Intel       Date:       Date:</td><td>L3 @ 4'       C       1       X       6/13/24       X         L4 @ 3'       C       1       X       6/13/24       X         L5 @ 3'       C       1       X       6/13/24       X         W1       C       1       X       6/13/24       X         W2       C       1       X       6/13/24       X         W1       C       1       X       6/13/24       X         W1       C       1       X       6/13/24       X         W1       C       1       X       6/13/24       X         Damages. Calinat's tability and client's exclusive remedy for any clain a raising whether based in contract or tort, shall be limited to the amount paid by the client or the optic incurred by fact any clain a raising whether based in contract or tort, shall be limited to the amount paid by the client or the optic incurred by fact and in a splice.       X       6/13/24       X         Integer       Date:       Time:       Time:       Starting the optic incurred by fact and in the optic incurred by fact and in</td><td>L 2 @ 3'       C       1       X       6/13/24       X         L 3 @ 4'       C       1       X       6/13/24       X         L 4 @ 3'       C       1       X       6/13/24       X         L 4 @ 3'       C       1       X       6/13/24       X         L 4 @ 3'       C       1       X       6/13/24       X         L 5 @ 3'       C       1       X       6/13/24       X         W 2       C       1       X       6/13/24       X         W 3       C       1       X       6/13/24       X         W 1       C       1       X       6/13/24       X         W 2       C       1       X       6/13/24       X         Darage.       C       1       X       6/13/24       X         W 3       C       1       X       6/13/24       X       X         Darage.       Cadinal damages, including whether based in contract or tot, shall be limited to the amount paid by the clear for the opplic to the applic to the above state completion of the applic to the shall be inverted by Cadinal within 30 days after completion of the applic to the above state completion of the applic to the above state completion of the applic to the above state completion of the app</td><td><math display="block"> \begin{array}{c c c c c c c c c c c c c c c c c c c </math></td><td>MATRIX         PRESERV         SAMPLING           Sample I.D.         (G) RAB OR (C) OMP.         (G) RAB OR (C) OMP.         (G) RAB OR (C) OMP.           L1 (@) 3'         (G) RAB OR (C) OMP.         (G) RAB OR (C) OMP.         (G) RAB OR (C) OMP.           L2 (@) 3'         (G) RAB OR (C) OMP.         (G) RAB OR (C) OMP.         (G) RAB OR (C) OMP.           L3 (@) 4''         (G) 1         (G) 1         (G) 1         (G) 1         (G) 1           W1         (G) 1           W1         (G) 1         (G) 1</td><td>Fax #:         Fax #:&lt;</td><td>In:         32.20917, -103.46866         Phone #:         Fax #:         Eax #:         Eax #:         Eax #:         Eax #:         Chlorit           ::         Martin Sepulveda         Sample I.D.         Martin Sepulveda         Martin Sepulveda         PELS         PELS         PELS         PELS         Sample I.D.         G(C)OMP.         Anno Sepulveda         Sample I.D.         G(C)OMP.         PELS         Sample I.D.         G(C)OMP.         PELS         Sample I.D.         G(C)OMP.         PELS         G(C)         Anno Sepulveda         Sample I.D.         G(C)OMP.         PELS         G(C)         C         1         X         G(C)         Sample I.D.         Sample I.D.         G(C)         G(C)         C         1         X         G(C)         Sample I.D.         Sample I.D.         Sample I.D.         Sample I.D.         Sample I.D.         Sample I.D.         G(C)         G(C)         G(C)         Sample I.D.         Sample I.D.<!--</td--><td><math display="block">\begin{tabular}{ c c c c c c c c c c c c c c c c c c c</math></td><td>870         Project Owner:         Permian Resources         City:           Raider Fed Com 101H Spill #1         State:         Zip:         Phone #:         Phone #</td><td>(575)         264-9884         Fax #:         Address:           19870         Project Owner:         Permian Resources         City:           nme:         Raider Fed Com 101H Spill #1         State:         Zip:           ame:         Martin Sepulveda         Fax #:         Phone #:         Fax #:           ame:         Martin Sepulveda         Fax #:         Fax #:         Fax #:           Ovv         Fax #:         Fax #:         Fax #:         Fax #:           Ovv         Fax #:         Fax #:         Fax #:         Fax #:           Ovv         Sample I.D.         Sample I.D.         Sample I.D.         PRESERV         SAMPLING           IVV         Sample I.D.         GI GONTAINERS         PRESERV         SAMPLING         Vov           FL 1 @ 3         C         1         X         GI GONTAINERS         PRESERV         SAMPLING           IVV         GI 3         C         1         X         GI SI J DI E         DITE         TIME         Chloride           IVV         GI 3         C         1         X         GI SI J DI E         Vot FI E         NIX         FI SI SI</td><td>obbs         State:         NM         Zip:         88240         Atn:         Mongomery Floyd           (975)         264-9804         Fax #:         Address:         Address:         Address:         State:         Vir         State:         Vir         State:         Vir         Nongomery Floyd           19870         Project Owner:         Peroject Owner:         Permian Resources         City:         State:         Zip:         Nongomery Floyd           cation:         32.0917, -103.46866         Nongomery Floyd         Nongom</td><td>West Marland       State:       NM       Zip:       Company       Permian Resources         204-9884       Fax #:       Address:       Address:       Address:       Address:       State:       Nontgomary Floyd         32:20917103.46866       Project Owner:       Permian Resources       Phone #:       State:       Zip:       Phone #:       Phone #:       Phone #:       Fax #:       Phone #:       Fax #:</td><td></td><td><math display="block">\begin{tabular}{ c c c } \hline Field Environmental &amp; Safety Solutions, Inc.                                   </math></td></td></td> | Image: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the policit (those for negliquenes and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal with: 30 days after competition of the applic (three for reliated type performance of services herewarder by Cardinal, including without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, or reliated type performance of services herewarder by Cardinal, whether such claim is based upon any of the above stated reasons or otherwise.     Phone Result:       Image:     Date:     Received By:     Fax Result:       Time:     Date:     Received By:     Fax Result: | Image:       C       1       X       6/13/24       X         Image:       Cardinal's lability and client's exclusive remedy for any client arising whether based in contract or tort, shall be limited to the amount pade by the client or the applic finance of services that be ensued unless made in writing and received by Cardinal within 30 days after completion of the applic four of or related type performance of services thereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or ortherwise.         Image:       Date:       Received By:       Fax Result:         Time:       Date:       Received By:       Fax Result:         Time:       Time:       Phone Result:       Phone Result:         Time:       Received By:       Fax Result:       Phone Result:         Time:       Date:       Received By:       Phone Result: | Image:       C       1       X       6/13/24       X         Image:       C       1       X       6/13/24       X         Image:       C       1       X       6/13/24       X         Image:       Cardinal's lability and cilent's exclusive remedy for any cilin arising whether based in contract or tort, shall be limited to the amount paid by the cilent for the paid by the cilent for the application being and received by Cardinal whith 30 days after completion of the application of realard type performance of services hereunder by Cardinal, business interruptions, loss of profits incurred by cilent, its subsidiaries, out of or related type performance of services hereunder by Cardinal, negatiless of whether such cilain is based upon any of the above stated reasons or ofhensies.       Phone Result:         Image:       Date:       Received By:       Fax Result:         Time:       Received By:       Fax Result:         Time:       Received By:       Fax Result:         Time:       Date:       Received By:       Fax Result:         Time:       Received By:       Fax Result:       Fax Result: | WW 2       C       1       X       6/13/24       X         WW 3       C       1       X       6/13/24       X         WW 3       C       1       X       6/13/24       X         WW 2       C       1       X       6/13/24       X         W 2       Consequental damages, including whether based in contract or tort, shall be limited to the amount paid by the client for the anount paid by the client for the anount paid by client, its substainies, including whother timetion, business interruptions, loss of use, or loss of profits incurred by client, its substainies, tabulatines, client for the above state reasons or otherwise.         Image:       Date:       Time:       State Control       Phone Result:         Fax Result:       Fax Result:       Fax Result:       Fax Result:         Fax Result:       Received By:       Fax Result:       Remarks:         Time:       D | IVU 1       C       1       X       I       X       6/13/24       X         IVU 2       C       1       X       I       X       6/13/24       X         IVU 3       C       1       X       I       X       6/13/24       X         IVU 3       C       1       X       I       X       6/13/24       X         IVU 2       C       1       X       I       X       6/13/24       X         IVU 2       C       1       X       I       X       6/13/24       X         IVU 2       C       1       X       I       X       6/13/24       X         IVU 2       C       1       X       I       X       6/13/24       X         IVU 2       C       1       X       I       X       6/13/24       X         IVU 2       C       1       X       I       X       6/13/24       X         IVU 2       Calinal balance of realide tamages, including whout limitaion, bases interruptors, loss of use, or los of polits incurred by ficant its subsidiate.       X       6/13/24       X         Ivu of or related tamages including whout limitaion, basies interruptors, loss of use, or los of polits i | L       5       0       1       X       I       X       6/13/24       X         IW       1       C       1       X       I       X       6/13/24       X       X         IW       2       C       1       X       I       X       6/13/24       X       X         IW       2       C       1       X       I       X       6/13/24       X       X         IW       2       C       1       X       I       X       6/13/24       X       X         IW       2       C       1       X       I       X       6/13/24       X       X         IW       2       C       1       X       I       X       6/13/24       X       X         IW       2       C       1       X       I       X       6/13/24       X       X         IW       2       C       1       X       I       X       6/13/24       X       X         IW       2       C       1       X       I       X       6/13/24       X       X         IW       2       C       1       X <td>L4 @ 3'       C       1       X       I       S       6/13/24       X         IL5 @ 3'       C       1       X       C       1       X       6/13/24       X       X         IW1       C       1       X       C       1       X       6/13/24       X       X         IW2       C       1       X       I       X       6/13/24       X       X         IW2       C       1       X       I       X       6/13/24       X       X         IW2       C       1       X       I       X       6/13/24       X       X         IW2       C       1       X       I       X       6/13/24       X       X         IW2       C       1       X       I       X       6/13/24       X       X         IW2       C       1       X       I       X       6/13/24       X       X         IW2       C       1       X       Intel to the anout paid by the client or the anout paid by client, is subditainies.         Intel       Date:       Date:</td> <td>L3 @ 4'       C       1       X       6/13/24       X         L4 @ 3'       C       1       X       6/13/24       X         L5 @ 3'       C       1       X       6/13/24       X         W1       C       1       X       6/13/24       X         W2       C       1       X       6/13/24       X         W1       C       1       X       6/13/24       X         W1       C       1       X       6/13/24       X         W1       C       1       X       6/13/24       X         Damages. Calinat's tability and client's exclusive remedy for any clain a raising whether based in contract or tort, shall be limited to the amount paid by the client or the optic incurred by fact any clain a raising whether based in contract or tort, shall be limited to the amount paid by the client or the optic incurred by fact and in a splice.       X       6/13/24       X         Integer       Date:       Time:       Time:       Starting the optic incurred by fact and in the optic incurred by fact and in</td> <td>L 2 @ 3'       C       1       X       6/13/24       X         L 3 @ 4'       C       1       X       6/13/24       X         L 4 @ 3'       C       1       X       6/13/24       X         L 4 @ 3'       C       1       X       6/13/24       X         L 4 @ 3'       C       1       X       6/13/24       X         L 5 @ 3'       C       1       X       6/13/24       X         W 2       C       1       X       6/13/24       X         W 3       C       1       X       6/13/24       X         W 1       C       1       X       6/13/24       X         W 2       C       1       X       6/13/24       X         Darage.       C       1       X       6/13/24       X         W 3       C       1       X       6/13/24       X       X         Darage.       Cadinal damages, including whether based in contract or tot, shall be limited to the amount paid by the clear for the opplic to the applic to the above state completion of the applic to the shall be inverted by Cadinal within 30 days after completion of the applic to the above state completion of the applic to the above state completion of the applic to the above state completion of the app</td> <td><math display="block"> \begin{array}{c c c c c c c c c c c c c c c c c c c </math></td> <td>MATRIX         PRESERV         SAMPLING           Sample I.D.         (G) RAB OR (C) OMP.         (G) RAB OR (C) OMP.         (G) RAB OR (C) OMP.           L1 (@) 3'         (G) RAB OR (C) OMP.         (G) RAB OR (C) OMP.         (G) RAB OR (C) OMP.           L2 (@) 3'         (G) RAB OR (C) OMP.         (G) RAB OR (C) OMP.         (G) RAB OR (C) OMP.           L3 (@) 4''         (G) 1         (G) 1         (G) 1         (G) 1         (G) 1           W1         (G) 1           W1         (G) 1         (G) 1</td> <td>Fax #:         Fax #:&lt;</td> <td>In:         32.20917, -103.46866         Phone #:         Fax #:         Eax #:         Eax #:         Eax #:         Eax #:         Chlorit           ::         Martin Sepulveda         Sample I.D.         Martin Sepulveda         Martin Sepulveda         PELS         PELS         PELS         PELS         Sample I.D.         G(C)OMP.         Anno Sepulveda         Sample I.D.         G(C)OMP.         PELS         Sample I.D.         G(C)OMP.         PELS         Sample I.D.         G(C)OMP.         PELS         G(C)         Anno Sepulveda         Sample I.D.         G(C)OMP.         PELS         G(C)         C         1         X         G(C)         Sample I.D.         Sample I.D.         G(C)         G(C)         C         1         X         G(C)         Sample I.D.         Sample I.D.         Sample I.D.         Sample I.D.         Sample I.D.         Sample I.D.         G(C)         G(C)         G(C)         Sample I.D.         Sample I.D.<!--</td--><td><math display="block">\begin{tabular}{ c c c c c c c c c c c c c c c c c c c</math></td><td>870         Project Owner:         Permian Resources         City:           Raider Fed Com 101H Spill #1         State:         Zip:         Phone #:         Phone #</td><td>(575)         264-9884         Fax #:         Address:           19870         Project Owner:         Permian Resources         City:           nme:         Raider Fed Com 101H Spill #1         State:         Zip:           ame:         Martin Sepulveda         Fax #:         Phone #:         Fax #:           ame:         Martin Sepulveda         Fax #:         Fax #:         Fax #:           Ovv         Fax #:         Fax #:         Fax #:         Fax #:           Ovv         Fax #:         Fax #:         Fax #:         Fax #:           Ovv         Sample I.D.         Sample I.D.         Sample I.D.         PRESERV         SAMPLING           IVV         Sample I.D.         GI GONTAINERS         PRESERV         SAMPLING         Vov           FL 1 @ 3         C         1         X         GI GONTAINERS         PRESERV         SAMPLING           IVV         GI 3         C         1         X         GI SI J DI E         DITE         TIME         Chloride           IVV         GI 3         C         1         X         GI SI J DI E         Vot FI E         NIX         FI SI SI</td><td>obbs         State:         NM         Zip:         88240         Atn:         Mongomery Floyd           (975)         264-9804         Fax #:         Address:         Address:         Address:         State:         Vir         State:         Vir         State:         Vir         Nongomery Floyd           19870         Project Owner:         Peroject Owner:         Permian Resources         City:         State:         Zip:         Nongomery Floyd           cation:         32.0917, -103.46866         Nongomery Floyd         Nongom</td><td>West Marland       State:       NM       Zip:       Company       Permian Resources         204-9884       Fax #:       Address:       Address:       Address:       Address:       State:       Nontgomary Floyd         32:20917103.46866       Project Owner:       Permian Resources       Phone #:       State:       Zip:       Phone #:       Phone #:       Phone #:       Fax #:       Phone #:       Fax #:</td><td></td><td><math display="block">\begin{tabular}{ c c c } \hline Field Environmental &amp; Safety Solutions, Inc.                                   </math></td></td> | L4 @ 3'       C       1       X       I       S       6/13/24       X         IL5 @ 3'       C       1       X       C       1       X       6/13/24       X       X         IW1       C       1       X       C       1       X       6/13/24       X       X         IW2       C       1       X       I       X       6/13/24       X       X         IW2       C       1       X       I       X       6/13/24       X       X         IW2       C       1       X       I       X       6/13/24       X       X         IW2       C       1       X       I       X       6/13/24       X       X         IW2       C       1       X       I       X       6/13/24       X       X         IW2       C       1       X       I       X       6/13/24       X       X         IW2       C       1       X       Intel to the anout paid by the client or the anout paid by client, is subditainies.         Intel       Date:       Date: | L3 @ 4'       C       1       X       6/13/24       X         L4 @ 3'       C       1       X       6/13/24       X         L5 @ 3'       C       1       X       6/13/24       X         W1       C       1       X       6/13/24       X         W2       C       1       X       6/13/24       X         W1       C       1       X       6/13/24       X         W1       C       1       X       6/13/24       X         W1       C       1       X       6/13/24       X         Damages. Calinat's tability and client's exclusive remedy for any clain a raising whether based in contract or tort, shall be limited to the amount paid by the client or the optic incurred by fact any clain a raising whether based in contract or tort, shall be limited to the amount paid by the client or the optic incurred by fact and in a splice.       X       6/13/24       X         Integer       Date:       Time:       Time:       Starting the optic incurred by fact and in | L 2 @ 3'       C       1       X       6/13/24       X         L 3 @ 4'       C       1       X       6/13/24       X         L 4 @ 3'       C       1       X       6/13/24       X         L 4 @ 3'       C       1       X       6/13/24       X         L 4 @ 3'       C       1       X       6/13/24       X         L 5 @ 3'       C       1       X       6/13/24       X         W 2       C       1       X       6/13/24       X         W 3       C       1       X       6/13/24       X         W 1       C       1       X       6/13/24       X         W 2       C       1       X       6/13/24       X         Darage.       C       1       X       6/13/24       X         W 3       C       1       X       6/13/24       X       X         Darage.       Cadinal damages, including whether based in contract or tot, shall be limited to the amount paid by the clear for the opplic to the applic to the above state completion of the applic to the shall be inverted by Cadinal within 30 days after completion of the applic to the above state completion of the applic to the above state completion of the applic to the above state completion of the app | $ \begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MATRIX         PRESERV         SAMPLING           Sample I.D.         (G) RAB OR (C) OMP.         (G) RAB OR (C) OMP.         (G) RAB OR (C) OMP.           L1 (@) 3'         (G) RAB OR (C) OMP.         (G) RAB OR (C) OMP.         (G) RAB OR (C) OMP.           L2 (@) 3'         (G) RAB OR (C) OMP.         (G) RAB OR (C) OMP.         (G) RAB OR (C) OMP.           L3 (@) 4''         (G) 1         (G) 1         (G) 1         (G) 1         (G) 1           W1         (G) 1           W1         (G) 1         (G) 1 | Fax #:         Fax #:< | In:         32.20917, -103.46866         Phone #:         Fax #:         Eax #:         Eax #:         Eax #:         Eax #:         Chlorit           ::         Martin Sepulveda         Sample I.D.         Martin Sepulveda         Martin Sepulveda         PELS         PELS         PELS         PELS         Sample I.D.         G(C)OMP.         Anno Sepulveda         Sample I.D.         G(C)OMP.         PELS         Sample I.D.         G(C)OMP.         PELS         Sample I.D.         G(C)OMP.         PELS         G(C)         Anno Sepulveda         Sample I.D.         G(C)OMP.         PELS         G(C)         C         1         X         G(C)         Sample I.D.         Sample I.D.         G(C)         G(C)         C         1         X         G(C)         Sample I.D.         Sample I.D.         Sample I.D.         Sample I.D.         Sample I.D.         Sample I.D.         G(C)         G(C)         G(C)         Sample I.D.         Sample I.D. </td <td><math display="block">\begin{tabular}{ c c c c c c c c c c c c c c c c c c c</math></td> <td>870         Project Owner:         Permian Resources         City:           Raider Fed Com 101H Spill #1         State:         Zip:         Phone #:         Phone #</td> <td>(575)         264-9884         Fax #:         Address:           19870         Project Owner:         Permian Resources         City:           nme:         Raider Fed Com 101H Spill #1         State:         Zip:           ame:         Martin Sepulveda         Fax #:         Phone #:         Fax #:           ame:         Martin Sepulveda         Fax #:         Fax #:         Fax #:           Ovv         Fax #:         Fax #:         Fax #:         Fax #:           Ovv         Fax #:         Fax #:         Fax #:         Fax #:           Ovv         Sample I.D.         Sample I.D.         Sample I.D.         PRESERV         SAMPLING           IVV         Sample I.D.         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Sample I.D.         Sample I.D.         PRESERV         SAMPLING           IVV         Sample I.D.         GI GONTAINERS         PRESERV         SAMPLING         Vov           FL 1 @ 3         C         1         X         GI GONTAINERS         PRESERV         SAMPLING           IVV         GI 3         C         1         X         GI SI J DI E         DITE         TIME         Chloride           IVV         GI 3         C         1         X         GI SI J DI E         Vot FI E         NIX         FI SI | obbs         State:         NM         Zip:         88240         Atn:         Mongomery Floyd           (975)         264-9804         Fax #:         Address:         Address:         Address:         State:         Vir         State:         Vir         State:         Vir         Nongomery Floyd           19870         Project Owner:         Peroject Owner:         Permian Resources         City:         State:         Zip:         Nongomery Floyd           cation:         32.0917, -103.46866         Nongomery Floyd         Nongom | West Marland       State:       NM       Zip:       Company       Permian Resources         204-9884       Fax #:       Address:       Address:       Address:       Address:       State:       Nontgomary Floyd         32:20917103.46866       Project Owner:       Permian Resources       Phone #:       State:       Zip:       Phone #:       Phone #:       Phone #:       Fax #:       Phone #:       Fax #: |                      | $\begin{tabular}{ c c c } \hline Field Environmental & Safety Solutions, Inc.                                   $ |

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roject Manager:	Joel Lowry							P.O.	.#													
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ity: Hobbs	State: NM	Zip:	Zip: 88240	40				Attn:	2		M	Montgomery Floyd	/d									
e #:	(575) 264-9884 Fax #:							Ad	Address:	S:												
roject #: 19870	0 Project Owner:		Permian Resources	nian	Re	sour	ces	City:	Y:							B)						
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FOR LAB USE ONLY					M	MATRIX	×		PR	PRESERV.	RV.	SAMPLING				B						-
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME									
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Relinquished By:	By: Date: Date:		Received By:	ved	By:	8	3	í,	3	S	X		Phone Result: Fax Result: REMARKS:	lft	□ Yes		No Ac	Add'l Phone #: Add'l Fax #:	#: #:			
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FORM-006 Revision 1.0		ardi	nal	canr	nota	acce	pt v	erb	al c	han	ges	† Cardinal cannot accept verbal changes. Please fax written changes	written cl	nang		to 575-393-2476	-2476					

Received by OCD: 7/26/2024 10:49:11 AM



July 10, 2024

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

RE: SOLOMON FED COM 709H

Enclosed are the results of analyses for samples received by the laboratory on 07/03/24 14:41.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

## Analytical Results For:

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

Received:	07/03/2024	Sampling Date:	07/03/2024
Reported:	07/10/2024	Sampling Type:	Soil
Project Name:	SOLOMON FED COM 709H	Sampling Condition:	Cool & Intact
Project Number:	20413	Sample Received By:	Alyssa Parras
Project Location:	32.1970251, -103.45345		

#### Sample ID: QUIAL RANCH PIT BACKFILL (H244016-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2024	ND	1.92	96.2	2.00	6.01	
Toluene*	<0.050	0.050	07/10/2024	ND	1.95	97.6	2.00	3.03	
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	1.97	98.6	2.00	3.11	
Total Xylenes*	<0.150	0.150	07/10/2024	ND	5.81	96.8	6.00	2.48	
Total BTEX	<0.300	0.300	07/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>Chloride 48.0</b> 16.0		07/09/2024	ND	432	108	400	0.00	
TPH 8015M	l mg/kg Analyzed l		d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	102	102	100	2.67	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	101	101	100	1.00	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	73.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.4	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

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

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clent'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 whother is subsidiaries, affiliates or successor arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Company Nam	(n 10	NM 88240 ) 393-2476		al ala	
Project Monocore		ety Solutions, Inc.	BILL TO	A A	
an	er: Joel Lowry		P.O. #:	a	ANALTSIS REQUEST
ess:	2617 West Marland	*	Company Permian Resources		
dop	State:	NM Zip: 88240	2		
	(575) 264-9884 Fax #:		ess:	nu.	
Project #: 20413		Project Owner: Permian Resources	Citu.	K	
Project Name:	Solomon Fed Com 709H				B)
Project Location:	n: 32.1970251, -103.45345		orare: 71b:		021
Sampler Name:	Tan		Phone #:	-	(80
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T ON LHE USE ONLY		P. MATRIX	PRESERV. SAMPLING	С	BTE
Lab I.D.	Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE		<b>n</b>	
	Quail Ranch Pit Backfill			ñ	
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PLEASE NOTE: Liability and Damages analyses. All claims including those for service. In no event shall Cardinal be lia affiliates or successors prising out of or r Relinguished By:	d Damages. Cardinal's liability and client's exclusive remedy for any claim rg those for negligence and any other cause whatsoever shall be deemed ardinal be liable for incidental or consequential damages, including without goult of or related to the performance of services hereunder by Cardinal.	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in wing and received by Cardinal within 30 days after completion of the applic envice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business made in wing and received by Cardinal within 30 days after completion of the applic Iffiliates or successors printing out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	xrt, shall be limited to the amount paid by the client for terved by Cardinal within 30 days after completion of the evend by Cardinal within 30 days after completion. Its subsidiation of use, or loss of profits incurred by client, its subsidiary of the above stated reasons or otherwise tesed upon any of the above stated reasons or otherwise.	It for the of the applicable sidiaries,	
Refinguished By:	Time:	A Received By:	Phone Result: Fax Result: REMARKS:	Result: □ Yes sult: □ Yes XKS:	□ No Add'I Phone #: □ No Add'I Fax #:
Sampler - UPS - Bus - Other FORM-006	- Bus - Other: $\#/40$	Sample Condition CHECKED BY: Cool Intact (Initials)	CHECKED BY: (Initials)		. The suite of the suite is the suite of the

# Appendix D Photographic Log

# Photographic Log



# Photographic Log





# Appendix E Regulatory Correspondence

From:	OCDOnline@state.nm.us
Sent:	Thursday, June 6, 2024 4:58 PM
То:	Matthew Taylor
Subject:	-EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 351814

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2219045002.

The sampling event is expected to take place:

When: 06/10/2024 @ 07:00 Where: A-21-24S-34E 0 FNL 0 FEL (32.20917,-103.46866)

Additional Information: Martin Sepulveda martin@etechenv.com 432-3057322

Additional Instructions: From the intersection of NM-128 and Co Rd 2-B (32.210407, -103.466343), head S on Co Rd 2-B for 0.11 mi, then W for 0.14 mi to arrive at the Raider Fed Com 101H location (32.20917, -103.46866).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

# New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

From:	OCDOnline@state.nm.us
Sent:	Thursday, June 6, 2024 4:59 PM
То:	Matthew Taylor
Subject:	-EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 351816

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2219045002.

The sampling event is expected to take place:

When: 06/11/2024 @ 07:00 Where: A-21-24S-34E 0 FNL 0 FEL (32.20917,-103.46866)

Additional Information: Martin Sepulveda martin@etechenv.com 432-3057322

Additional Instructions: From the intersection of NM-128 and Co Rd 2-B (32.210407, -103.466343), head S on Co Rd 2-B for 0.11 mi, then W for 0.14 mi to arrive at the Raider Fed Com 101H location (32.20917, -103.46866).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

# New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

From:	OCDOnline@state.nm.us
Sent:	Monday, June 10, 2024 10:48 AM
То:	Matthew Taylor
Subject:	-EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 352546

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2219045002.

The sampling event is expected to take place:

When: 06/12/2024 @ 07:00 Where: A-21-24S-34E 0 FNL 0 FEL (32.20917,-103.46866)

Additional Information: Martin Sepulveda martin@etechenv.com 432-3057322

Additional Instructions: From the intersection of NM-128 and Co Rd 2-B (32.210407, -103.466343), head S on Co Rd 2-B for 0.11 mi, then W for 0.14 mi to arrive at the Raider Fed Com 101H location (32.20917, -103.46866).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

# New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

From:	OCDOnline@state.nm.us
Sent:	Monday, June 10, 2024 10:50 AM
То:	Matthew Taylor
Subject:	-EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 352548

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2219045002.

The sampling event is expected to take place:

When: 06/14/2024 @ 07:00 Where: A-21-24S-34E 0 FNL 0 FEL (32.20917,-103.46866)

Additional Information: Martin Sepulveda martin@etechenv.com 432-3057322

Additional Instructions: From the intersection of NM-128 and Co Rd 2-B (32.210407, -103.466343), head S on Co Rd 2-B for 0.11 mi, then W for 0.14 mi to arrive at the Raider Fed Com 101H location (32.20917, -103.46866).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

# New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

From:	OCDOnline@state.nm.us
Sent:	Monday, June 10, 2024 10:52 AM
То:	Matthew Taylor
Subject:	-EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 352550

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2219045002.

The sampling event is expected to take place:

When: 06/17/2024 @ 07:00 Where: A-21-24S-34E 0 FNL 0 FEL (32.20917,-103.46866)

Additional Information: Martin Sepulveda martin@etechenv.com 432-3057322

Additional Instructions: From the intersection of NM-128 and Co Rd 2-B (32.210407, -103.466343), head S on Co Rd 2-B for 0.11 mi, then W for 0.14 mi to arrive at the Raider Fed Com 101H location (32.20917, -103.46866).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

# New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

From:	OCDOnline@state.nm.us
Sent:	Monday, June 10, 2024 10:54 AM
То:	Matthew Taylor
Subject:	-EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 352551

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2219045002.

The sampling event is expected to take place:

When: 06/19/2024 @ 07:00 Where: A-21-24S-34E 0 FNL 0 FEL (32.20917,-103.46866)

Additional Information: Martin Sepulveda martin@etechenv.com 432-3057322

Additional Instructions: From the intersection of NM-128 and Co Rd 2-B (32.210407, -103.466343), head S on Co Rd 2-B for 0.11 mi, then W for 0.14 mi to arrive at the Raider Fed Com 101H location (32.20917, -103.46866).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

# New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

From:	OCDOnline@state.nm.us
Sent:	Monday, June 10, 2024 10:56 AM
То:	Matthew Taylor
Subject:	-EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 352552

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2219045002.

The sampling event is expected to take place:

When: 06/21/2024 @ 07:00 Where: A-21-24S-34E 0 FNL 0 FEL (32.20917,-103.46866)

Additional Information: Martin Sepulveda martin@etechenv.com 432-3057322

Additional Instructions: From the intersection of NM-128 and Co Rd 2-B (32.210407, -103.466343), head S on Co Rd 2-B for 0.11 mi, then W for 0.14 mi to arrive at the Raider Fed Com 101H location (32.20917, -103.46866).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

# New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

•

# Appendix F Electronic C-141 Supplemental Site Characterization Maps

# **Electronic C-141 Supplemental Documentation**

# Permian Resources Raider Fed Com 101H Spill #1

Lea County, New Mexico Unit Letter , Section , Township South, Range East Latitude 32.20917 North, Longitude 103.46866 West NMOCD Reference No. nAPP2219045002

Prepared By:

Etech Environmental & Safety Solutions, Inc. 2617 W. Marland Hobbs, New Mexico 88240

Robbie Runnels

120

Joel W. Lowry

Environmental & Safety Solutions, Inc.

Midland • San Antonio • Lubbock • Hobbs • Lafayette



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NM OCD Oil and Gas MRage 133 of 148



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Page 135 of 148

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NM OCD Oil and Gas MRage 139 of 148





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USDA, USGS The National Map: Orthoimagery. Data refreshed June, 2024. CSIL

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District III

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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

QUESTIONS

Action 367589

QUESTIONS		
Operator:	OGRID:	
Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	372165	
	Action Number:	
	367589	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

#### QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2329024748	
Incident Name	NAPP2329024748 RAIDER FED COM 101H @ 30-025-43408	
Incident Type	Oil Release	
Incident Status	Remediation Closure Report Received	
Incident Well	[30-025-43408] RAIDER FEDERAL COM #101H	

#### Location of Release Source

Please answer all the questions in this group.			
Site Name	RAIDER FED COM 101H		
Date Release Discovered	10/15/2023		
Surface Owner	Federal		

#### Incident Details

|--|

Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

#### Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission. Cause: Equipment Failure | Gasket | Crude Oil | Released: 80 BBL | Recovered: 65 BBL | Crude Oil Released (bbls) Details Lost: 15 BBL Produced Water Released (bbls) Details Not answered. Is the concentration of chloride in the produced water >10,000 mg/l Not answered. Condensate Released (bbls) Details Not answered. Natural Gas Vented (Mcf) Details Not answered. Natural Gas Flared (Mcf) Details Not answered. Other Released Details Not answered. Are there additional details for the questions above (i.e. any answer containing Not answered. Other, Specify, Unknown, and/or Fire, or any negative lost amounts)

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

QUESTIONS, Page 2

Action 367589

QUESTIONS (continued)			
Operator:	OGRID:		
Permian Resources Operating, LLC	372165		
300 N. Marienfeld St Ste 1000	Action Number:		
Midland, TX 79701	367589		
	Action Type:		
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)		

QUESTIONS

Nature and Volume of Release (continued)			
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.		
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes		
Reasons why this would be considered a submission for a notification of a major release <b>From paragraph A. "Major release" determine using:</b> (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.			
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.			

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a	a safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	valiation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of leted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required eases which may endanger public health or the environment. The acceptance of a C-141 report by o adequately investigate and remediate contamination that pose a threat to groundwater, surface ort does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Matthew Taylor Title: Environmental Coordinator Email: matthew.taylor@permianres.com

Date: 07/26/2024

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#### District III

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

QUESTIONS, Page 3

Page 143 of 148

Action 367589

**QUESTIONS** (continued) Operator: OGRID: Permian Resources Operating, LLC 372165 300 N. Marienfeld St Ste 1000 Action Number: Midland, TX 79701 367589 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date. affected by th groupdwater beneath the at danth ta What is the aball

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release an	d the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

#### Remediation Plan

Requesting a remediation	nlan approval with this submission	Yes		
Requesting a remediation plan approval with this submission Yes Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.				
Have the lateral and vertical extents of contamination been fully delineated Yes				
Was this release entirely co	ontained within a lined containment area	No		
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)				
Chloride (EPA 300.0 or SM4500 Cl B)		48		
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	4710		
GRO+DRO	(EPA SW-846 Method 8015M)	3800		
BTEX	(EPA SW-846 Method 8021B or 8260B)	2.8		
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.1		
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.				
which includes the anticipated tim	elines for beginning and completing the remediation.			
which includes the anticipated tim		ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NM. 06/13/2024		
which includes the anticipated tim On what estimated date wi	elines for beginning and completing the remediation.			
which includes the anticipated tim On what estimated date wi On what date will (or did) th	elines for beginning and completing the remediation. Il the remediation commence	06/13/2024		
which includes the anticipated tim On what estimated date wi On what date will (or did) th On what date will (or was)	elines for beginning and completing the remediation. Il the remediation commence ne final sampling or liner inspection occur	06/13/2024 06/21/2024		
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which includes the anticipated tim On what estimated date wi On what date will (or did) th On what date will (or was) the What is the estimated surfate What is the estimated voluth What is the estimated surfate	elines for beginning and completing the remediation. Il the remediation commence he final sampling or liner inspection occur the remediation complete(d) ace area (in square feet) that will be reclaimed me (in cubic yards) that will be reclaimed	06/13/2024           06/21/2024           06/27/2024           3300           360		

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 367589

QUESTI	ONS (continued)			
Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000	OGRID: 372165 Action Number:			
Midland, TX 79701	367589			
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)			
QUESTIONS				
Remediation Plan (continued)				
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.			
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:			
(Select all answers below that apply.)				
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes			
Which OCD approved facility will be used for off-site disposal	OWL LANDFILL JAL [fJEG1635837366]			
OR which OCD approved well (API) will be used for off-site disposal	Not answered.			
OR is the off-site disposal site, to be used, out-of-state	Not answered.			
OR is the off-site disposal site, to be used, an NMED facility	Not answered.			
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.			
(In Situ) Soil Vapor Extraction	Not answered.			
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.			
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.			
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.			
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.			
OTHER (Non-listed remedial process)	Not answered.			
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.				
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a	nowledge and understand that pursuant to OCD rules and regulations all operators are required uses which may endanger public health or the environment. The acceptance of a C-141 report by idequately investigate and remediate contamination that pose a threat to groundwater, surface a does not relieve the operator of responsibility for compliance with any other federal, state, or			
I hereby agree and sign off to the above statement	Name: Matthew Taylor Title: Environmental Coordinator Email: matthew.taylor@permianres.com Date: 07/26/2024			
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in according significantly deviate from the remediation plan proposed, then it should consult with the division to d	rdance with the physical realities encountered during remediation. If the responsible party has any need to etermine if another remediation plan submission is required.			

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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

Page 145 of 148

Action 367589

QUESTIONS (continued)	
Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	367589
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)
OUESTIONS	

# Deferral Requests Only

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of	the following items must be confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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

District III

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District IV

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

QUESTIONS, Page 6

Action 367589

QUESTIONS (continued)	
Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	367589
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	352561
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/21/2024
What was the (estimated) number of samples that were to be gathered	100
What was the sampling surface area in square feet	14000

**Remediation Closure Request** 

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	13360
What was the total volume (cubic yards) remediated	900
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	10000
What was the total volume (in cubic yards) reclaimed	900
Summarize any additional remediation activities not included by answers (above)	Remediation has been completed at the site.
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 report	knowledge and understand that pursuant to OCD rules and regulations all operators are required uses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or ially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ng notification to the OCD when reclamation and re-vegetation are complete.

	Name: Matthew Taylor
I hereby agree and sign off to the above statement	Title: Environmental Coordinator
	Email: matthew.taylor@permianres.com
	Date: 07/26/2024

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

QUESTIONS, Page 7

Action 367589

QUESTIONS (continued)	
Operator: Permian Resources Operating, LLC	OGRID: 372165
300 N. Marienfeld St Ste 1000 Midland, TX 79701	Action Number: 367589
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Reclamation Report	

Only answer the questions in this group if all reclamation steps have been completed. Requesting a reclamation approval with this submission No

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

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

CONDITIONS

Action 367589

CONDITIONS

Operator: OGRID:	
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	367589
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation closure approved. A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	7/31/2024
bhall	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	7/31/2024
bhall	Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC. Confirmation samples collected on 6/13/2024, 6/18/2024, and 6/24/2024 do not have corresponding sampling notifications.	7/31/2024