



July 29, 2022

District Supervisor
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

**Re: Release Characterization, Remediation and Closure Report
ConocoPhillips
Fez Fee #011H Line Release
Unit Letter D, Section 9, Township 25 South, Range 35 East
Lea County, New Mexico
Incident ID NAPP2207444703**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to assess a release that occurred at the Fez Fee #011H (API No. 30-025-42347). The release footprint is located in Public Land Survey System (PLSS) Unit Letter D, Section 9, Township 25 South, Range 35 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.150336°, -103.380206° as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), the release was discovered on March 4, 2022. As documented on the C-141 form, a failed welded line on the poly water line led to the release of approximately 5.958 barrels (bbls) of produced water encompassing an area of approximately 489 square feet (sf) off pad. This release extent was corroborated by a review of photographs taken following the release and observations made in the field. Brittany Esparza submitted the initial Form C-141 on March 17, 2022. The NMOCD approved the initial C-141 on the same day, and subsequently assigned the release the Incident ID NAPP2207444703. The approximate release extent is presented in Figure 3.

SITE CHARACTERIZATION

A site characterization was performed and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.0029 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within ½ mile (800 meters) of the Site. There is one (1) water well within an approximate 1-mile (1,600-meter) radius of the Site with a depth to groundwater at 165 feet (ft.) below ground surface (bgs).

As the available water level information was from a well farther than ½ mile away from the Site, the data from a temporary well installed by a licensed well drilling subcontractor on November 1, 2021 was utilized. Based on a Closure Request with established depth to water associated with another Fez Fee 011H Release from June 2021 (NAPP2118732077), this groundwater determination borehole (BH01) was drilled to 105 ft via air rotary drilling rig. BH01 is located at coordinates 32.15092°, -103.37879° and is within a ½ radius of the approximate release point associated with Incident ID NAPP2207444703. The borehole was temporarily set and screened using 2-inch PVC well materials: 87 feet of blank casing and 20 feet of screen. The borehole was left open for 72 hours to allow for potential slow infill of groundwater. After the 72-hour

Tetra Tech

901 West Wall St., Suite 100, Midland, TX 79701

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com

waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 105 ft. bgs. The borehole was properly abandoned utilizing hydrated bentonite chips. The site characterization data, boring log, and temporary well diagram are presented in Appendix B.

REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for the Site are as follows:

CONSTITUENT	Site RRALs
Chloride	20,000 mg/kg
TPH (GRO+DRO+MRO)	2,500 mg/kg
GRO+DRO	1,000 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule (19.15.29 NMAC)* (September 6, 2019), the following reclamation requirements for surface soils (0-4 ft bgs) outside of active oil and gas operations are as follows:

Constituent	Reclamation Requirements
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg

INITIAL RESPONSE

In accordance with 19.15.29.8. B. (4) NMAC that states “the responsible party may commence remediation immediately after discovery of a release”, COP elected to begin remediation of the impacted area in March 2022. Immediately following the release, a vacuum truck was dispatched to remove all freestanding fluids. Visually stained areas were scraped to remove impacted materials. The extent was scraped to approximately 3 to 6 inches below ground surface, resulting in approximately 10 cubic yards of contaminated soil being removed and sent to R360 Halfway Facility in Hobbs, New Mexico.

SITE ASSESSMENT AND RESULTS

In order to properly characterize the release footprint and achieve horizontal and vertical delineation of the release extent, Tetra Tech personnel conducted soil sampling following initial response activities. A total of six (6) borings were initially installed within and outside the release footprint using a hand auger on March 25, 2022. Two (2) borings (AH-1 and AH-2) were installed inside the release footprint to a depth of 3 ft bgs to achieve vertical delineation. Four (4) borings (H-1 through H-4) were installed along the perimeter of the release footprint to achieve horizontal delineation.

A total of twelve (12) samples were collected from the six (6) borings and submitted to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico to be analyzed on for chlorides via Standard Method 4500-Cl-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix C.

Analytical results from the March 2022 assessment activities are summarized in Table 1. The analytical results associated with AH-1 and AH-2 exceeded the reclamation requirements for chloride (600 mg/kg) in the 0.5 to 1.5-foot sample interval. All other analytical results were below applicable Site RRALs and reclamation requirements for soils above 4 ft bgs for all constituents. Vertical and horizontal delineation of the release was achieved following the March 2022 assessment activities. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix C. Photographic documentation of the release extent is included in Appendix D. Hand auger locations from the assessment are shown in Figure 4.

REGULATORY CORRESPONDENCE

In accordance with 19.15.29.12(B)(2) NMAC, COP submitted a 90-day extension request to the NMOCD on May 18, 2022. The extension request was granted by Jennifer Nobui via email on May 18, 2022. The extension moved the deadline to submit a Closure Report to August 19, 2022.

In accordance with 19.15.29.12(D)(1) NMAC, the NMOCD was notified prior to confirmation sampling via email dated July 5, 2022. The notification was received by Jennifer Nobui. Regulatory correspondence is included as Appendix E.

REMEDIATION ACTIVITIES AND CONFIRMATION SAMPLING

Beginning July 6 and continuing through July 12, 2022 Tetra Tech was onsite to oversee the excavation of impacted soils in the release extent to a depth of 2.5 feet below ground surface. Initial excavation work continued until a representative sample from the walls and bottom of the excavation had a field screening value inferred as lower than the reclamation requirements for the Site. Confirmation sample laboratory analytical results were directly compared to the proposed RRALs and/or reclamation requirements to demonstrate compliance.

In accordance with 19.15.29.12(D)(1)(b) NMAC, confirmation sampling of the remediated area for verification of remedial activities were collected where each sidewall and floor sample was representative of approximately 200 square feet. Confirmation sidewall sample locations were categorized with the cardinal direction (N, E, S, W) followed by SW-#. Confirmation floor sample locations are labeled with "FS-#". Excavated areas, depths and confirmation sample locations are shown in Figure 5.

A total of six (6) confirmation floor samples and seven (7) confirmation sidewall samples were collected during the initial round of sampling. In accordance with 19.15.29.12(D)(1)(b) NMAC, confirmation sampling of the remediated area for verification of remedial activities were collected where each sidewall and floor sample was representative of approximately 200 square feet. Confirmation sidewall sample locations were categorized with the cardinal direction (N, E, S, W) followed by SW-#. Confirmation floor sample locations were labeled with "FS"-#. Selected areas required additional excavation to collect a representative sample that was below the reclamation requirements for that location. As the analytical results associated with these sample locations exceeded the reclamation requirements, additional excavation was conducted at those locations until field screening results indicated closure criteria were attained.

Iterative confirmation samples were located to encompass the original sample locations that triggered removal (nomenclature defined in Table 2) post-additional excavation. If the sidewall area was expanded due to unacceptable confirmation sample results, the parentheses indicate the expansion iteration. For floor samples, the parentheses indicate the excavation floor depth from which the sample was collected.

Thus, four (4) additional confirmation floor samples and one (1) additional confirmation sidewall sample were collected following expansion and deepening of the excavation. All final confirmation sidewall and floor sample analytical results were below Site RRALs and reclamation requirements for soils in the 0-4 ft bgs interval. Results from the July 2022 confirmation sampling events are summarized in Table 2.

Collected confirmation samples were placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed for TPH, BTEX, and chloride within appropriate holding times by Cardinal

Release Characterization, Remediation, and Closure Report
July 29, 2022

ConocoPhillips

Laboratories in Hobbs, New Mexico. Copies of the laboratory analytical reports and chain-of-custody documentation are included in Appendix F.

A total of 160 cubic yards, in total, of excavated material were transported for proper disposal. 56 cubic yards of material were transported to R360 in Hobbs, New Mexico and 104 cubic yards of material was transported to the Northern Delaware Basin Landfill in Jal, New Mexico. Copies of the waste tickets are included as Appendix G.

SITE RECLAMATION AND RESTORATION

The excavated areas were backfilled post-confirmation sample collection and upon receiving analytical results below the applicable RRLs and reclamation requirements. Photographic documentation of the excavated areas prior to and immediately following placement of backfill are provided in Appendix D.

The backfilled areas in the pasture were seeded to aid in revegetation in July 2022. Based on the soils at the site, the New Mexico State Land Office (NMSLO) Sandy Loam Sites Seed Mixture was used for seeding and planted in the amount specified in the pounds pure live seed (PLS) per acre. The NMSLO seed mixture details are included in Appendix H.

Site inspections will be performed to assess the revegetation progress and evaluate the Site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the Site does not show revegetation after one growing season the area will be reseeded as appropriate.

CONCLUSION

ConocoPhillips respectfully requests closure of the incident based on the confirmation sampling results and remediation activities performed. The final C-141 forms are enclosed in Appendix A. If you have any questions concerning the soil assessment, the remediation work, or confirmation sampling for the Site, please call me at (512) 217-7254 or Christian at (512) 338-2861.

Sincerely,
Tetra Tech, Inc.



Ryan C. Dickerson
Project Manager



Christian M, Llull, P.G.
Program Manager

cc:
Mr. Charles Beauvais, GPBU - ConocoPhillips

LIST OF ATTACHMENTS

Figures:

- Figure 1 – Overview Map
- Figure 2 – Site Location/Topographic Map
- Figure 3 – Approximate Release Extent
- Figure 4 – Initial Response and Site Assessment
- Figure 5 – Remediation Extents and Confirmation Sample Locations

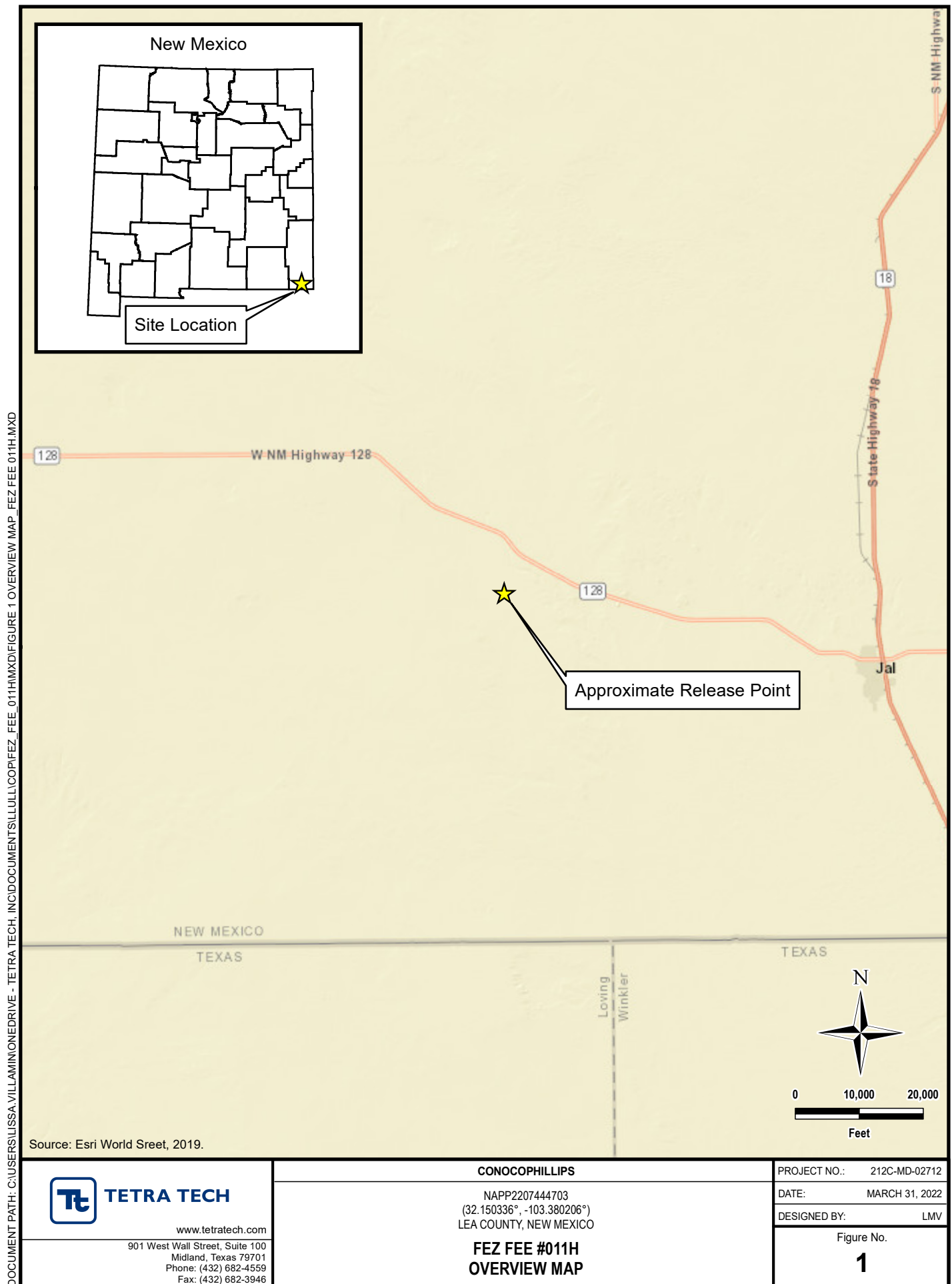
Tables:

- Table 1 – Summary of Analytical Results – Soil Assessment
- Table 2 – Summary of Analytical Results – Soil Remediation

Appendices:

- Appendix A – C-141 Forms
- Appendix B – Site Characterization Data
- Appendix C – Laboratory Analytical Data (Soil Assessment)
- Appendix D – Photographic Documentation
- Appendix E – Regulatory Correspondence
- Appendix F – Laboratory Analytical Data (Soil Remediation)
- Appendix G – Waste Manifest/Tickets
- Appendix H – NMSLO Seed Mixture

FIGURES



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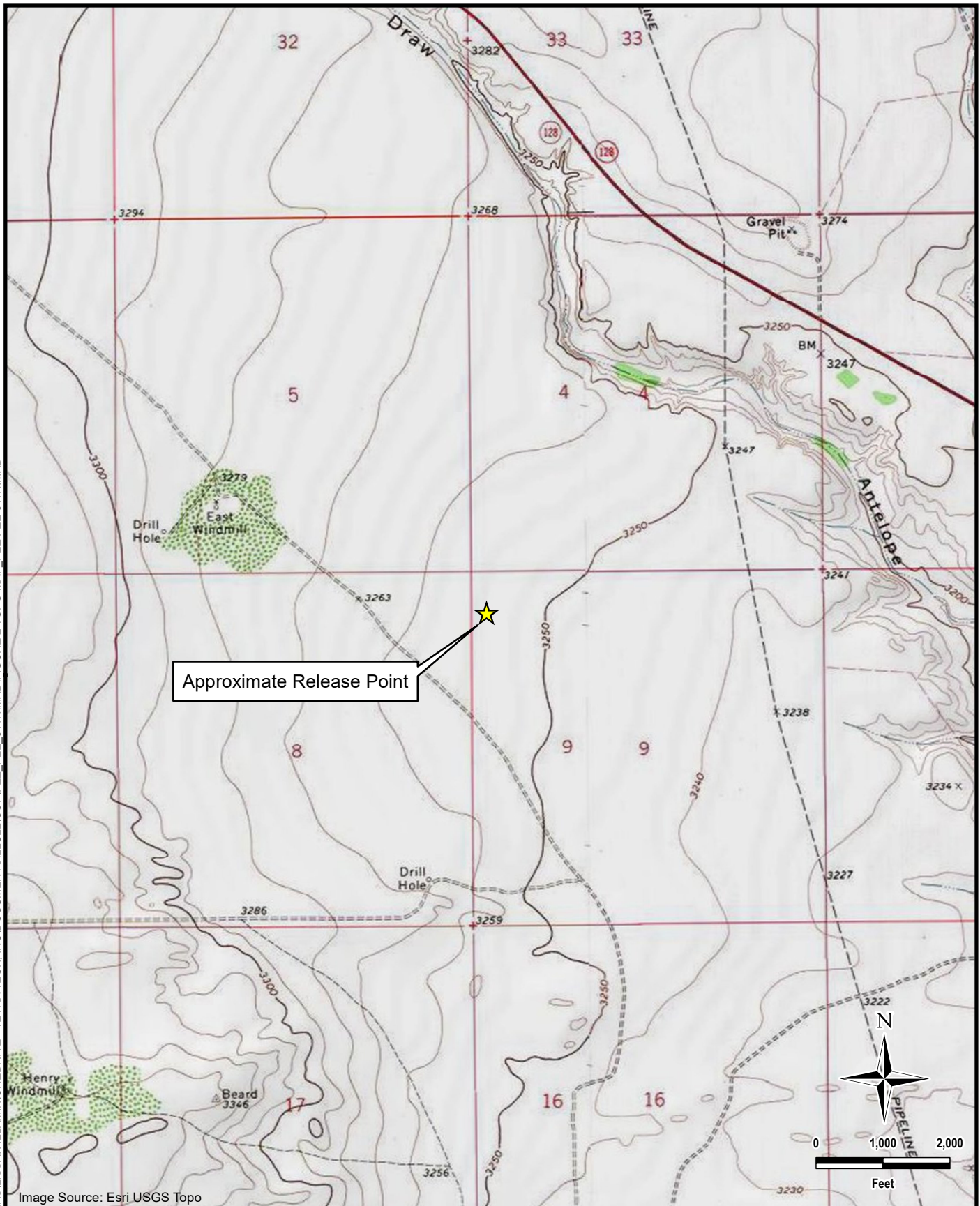


Image Source: Esri USGS Topo

**TETRA TECH**

www.tetrattech.com

901 West Wall Street, Suite 100
Midland, Texas 79701
Phone: (432) 682-4559
Fax: (432) 682-3946

CONOCOPHILLIPS

NAPP2207444703
(32.150336°, -103.380206°)
LEA COUNTY, NEW MEXICO

**FEZ FEE #011H
TOPOGRAPHIC MAP**

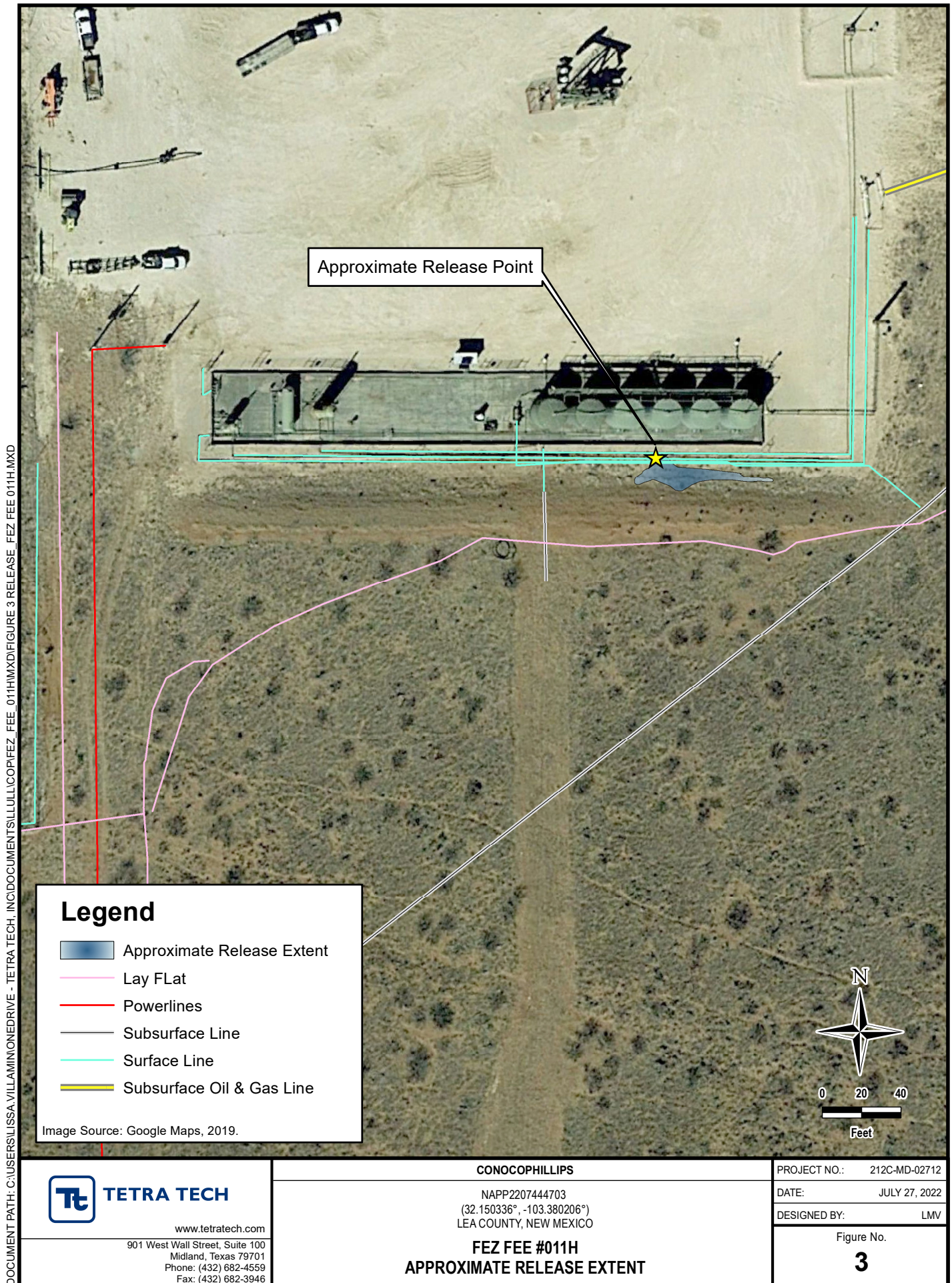
PROJECT NO.: 212C-MD-02712

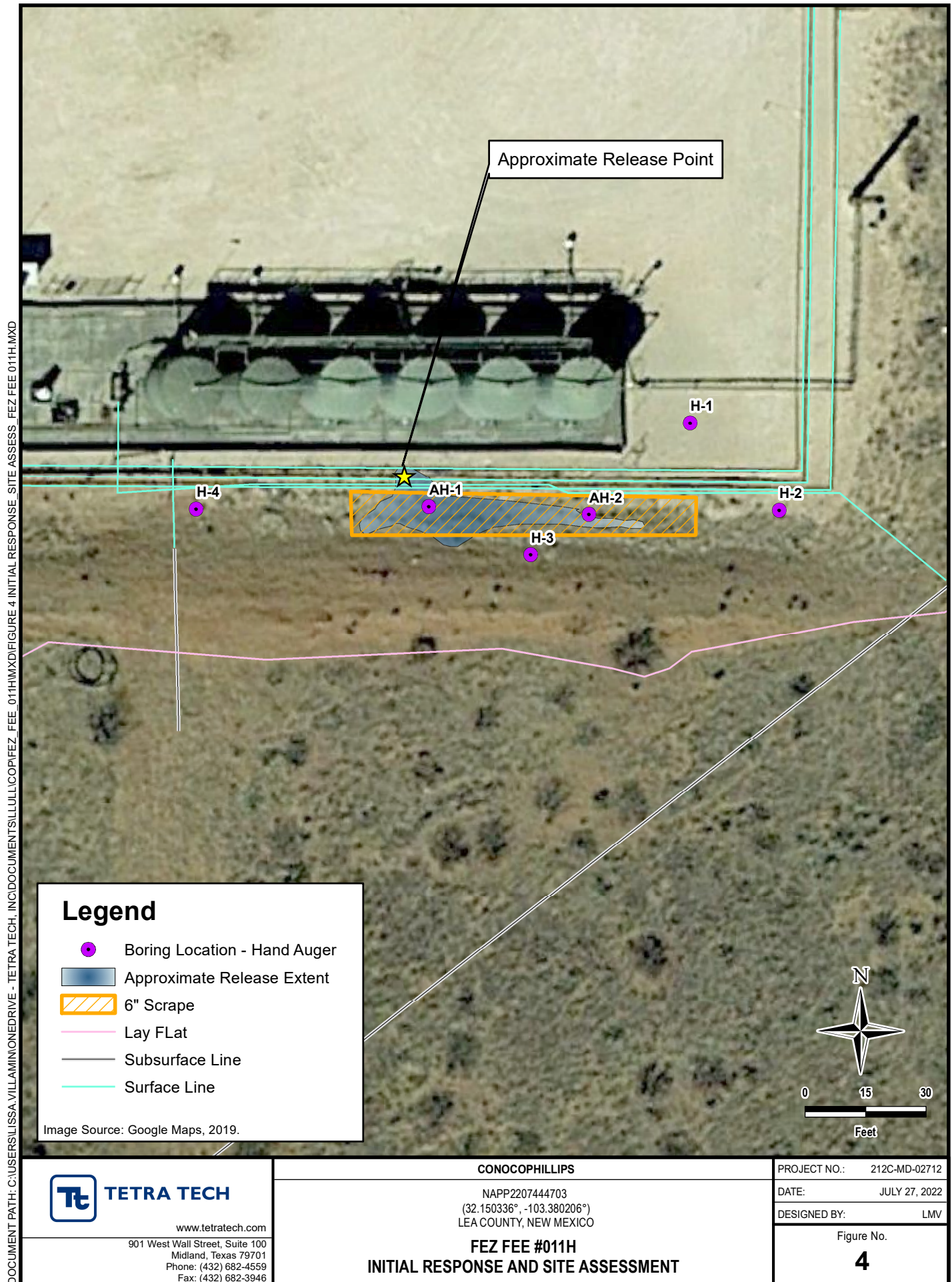
DATE: MARCH 31, 2022

DESIGNED BY: LMV

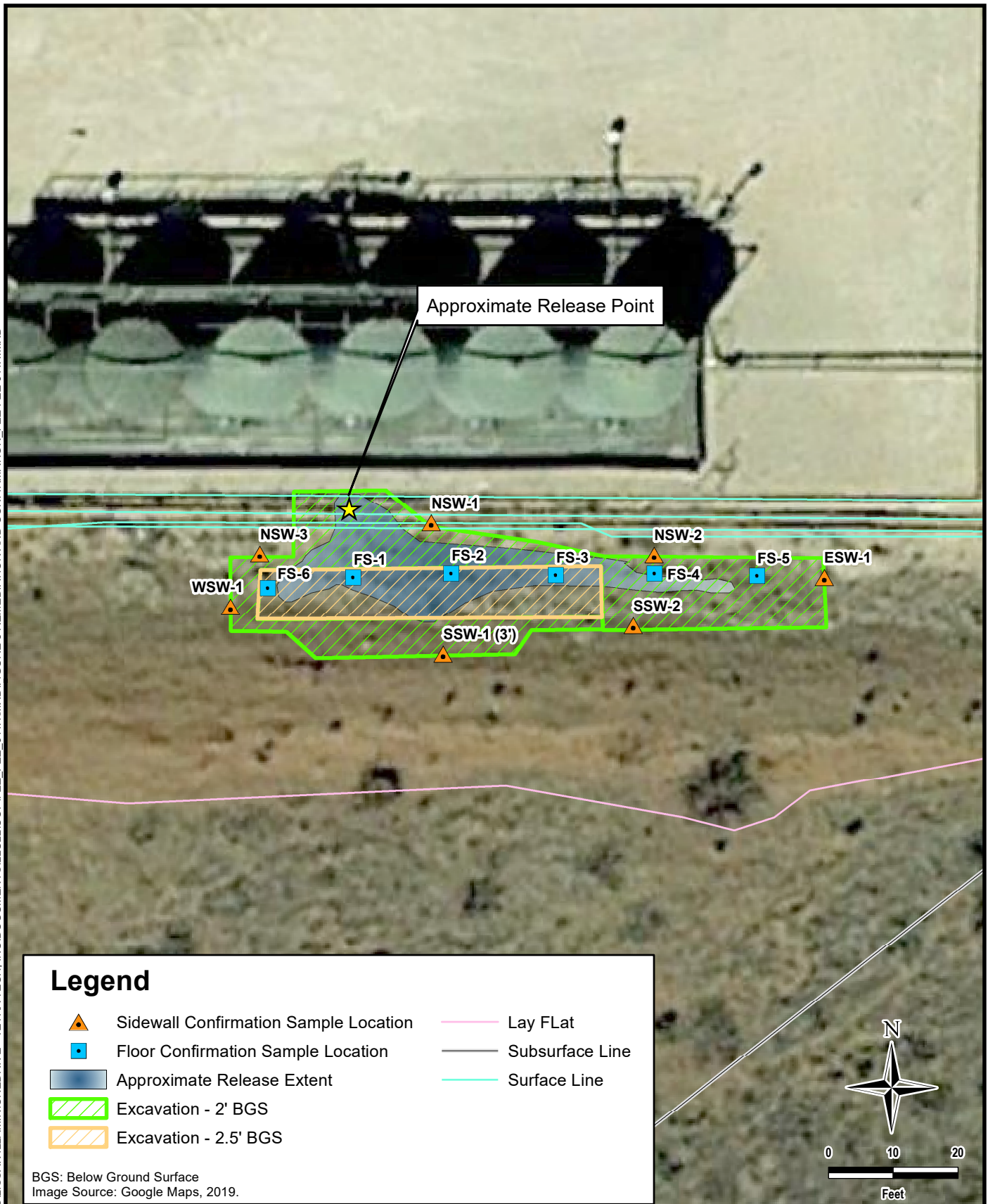
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**TETRA TECH**

www.tetrattech.com

901 West Wall Street, Suite 100
Midland, Texas 79701
Phone: (432) 682-4559
Fax: (432) 682-3946

CONOCOPHILLIPS

NAPP2207444703
(32.150336°, -103.380206°)
LEA COUNTY, NEW MEXICO

FEZ FEE #011H**REMEDIATION EXTENTS AND CONFIRMATION SAMPLING LOCATIONS**

PROJECT NO.: 212C-MD-02712

DATE: JULY 27, 2022

DESIGNED BY: LMV

Figure No.

5

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT- NAPP2207444703
CONOCOPHILLIPS
FEZ FEE #011H LINE RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride ¹		BTEX ²										TPH ³						
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO	DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
			ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
AH-1	3/25/2022	0.5-1.5	9,040	-	8,800		< 0.050	QM-07	< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		2-3	169	-	224		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
AH-2	3/25/2022	0.5-1.5	2,600	-	2,320		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		2-3	147	-	160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
H-1	3/25/2022	0-1	122	-	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		2-3	257	-	144		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
H-2	3/25/2022	0-1	361	-	400		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		2-3	51.1	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
H-3	3/25/2022	0-1	70.7	-	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		2-4	35.5	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
H-4	3/25/2022	0-1	62.6	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		2-3	29.2	-	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

Bold and italicized values indicate exceedance of proposed Remediation RRALs and Reclamation Requirements.

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

QM-07 The spike recovery was outside the acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
SOIL REMEDIATION - NAPP2207444703
CONOCOPHILLIPS
FEX FEE #011H LINE RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride ¹		BTEX ²										TPH ³							
							Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
			C ₆ - C ₁₀														> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆					
		ft. bgs	ppm		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
FS-1	7/6/2022	2	2,630	-	3,440		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
FS-1 (2.5')*	7/8/2022	2.5	116	-	160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
FS-2	7/6/2022	2	6,570	-	12,200		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
FS-2 (2.5')*	7/8/2022	2.5	257	-	272		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
FS-3	7/6/2022	2	2,940	-	2,240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
FS-3 (2.5')*	7/8/2022	2.5	512	-	416		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
FS-4	7/6/2022	2	186	-	112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
FS-5	7/6/2022	2	360	-	256		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
FS-6	7/7/2022	2	2,920	-	3,400		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
FS-6 (2.5')*	7/8/2022	2.5	298	-	240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
NSW-1	7/7/2022	-	285	-	160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
NSW-2	7/7/2022	-	166	-	128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
NSW-3	7/7/2022	-	199	-	160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
ESW-1	7/6/2022	-	171	-	128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
SSW-1	7/6/2022	-	1,360	-	1,020		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
SSW-1 (3')*	7/8/2022	-	351	-	240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
SSW-2	7/6/2022	-	28.5	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
WSW-1	7/7/2022	-	226	-	128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

Bold and italicized values indicate exceedance of proposed Remediation RRLs and Reclamation Requirements.

Gold highlight represents soil horizons that were removed during deepening of excavation floors.

Green highlight represents soil intervals that were removed during horizontal expansion of excavation sidewalls.

* These iterative samples are located to encompass the original sample location that triggered removal, with further excavation in each area indicated in ().

QUALIFIERS:

APPENDIX A C-141 Forms

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2207444703
District RP	
Facility ID	30-025-42347
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

Incident ID	NAPP2207444703
District RP	
Facility ID	30-025-42347
Application ID	

<p>Was this a major release as defined by 19.15.29.7(A) NMAC?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>If YES, for what reason(s) does the responsible party consider this a major release?</p>
<p>If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?</p>	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name _____	Title: _____
Signature: <u> <i>Battani Espinoza</i> </u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: <u> Jocelyn Harimon </u>	Date: <u> 03/17/2022 </u>

Facility Name & Number:	FEZ FEE 11H
Asset Area:	Delaware basin east
Release Discovery Date & Time:	3/4/2022 @1PM
Release Type:	Produced Water
Provide any known details about the event:	POLY WATER LINE SPLIT OPEN AT WELD

Spill Calculation - On Pad Surface Pool Spill

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	Estimated <u>Pool</u> Area (sq. ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	80.0	5.0	1.00	1	400.000	0.083	5.933	0.004	5.958			
Rectangle B					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle C					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle D					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle E					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle F					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle G					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle H					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle I					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Released to Imaging: 8/2/2022 3:20:19 PM					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Total Volume Release:									5.958			

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

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

CONDITIONS

Action 91048

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 91048
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	3/17/2022

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

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

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

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

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: Charles R. Beauvais Jr Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature: Charles R. Beauvais Jr Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Jennifer Nobui Date: _____

Printed Name: _____ Title: _____

APPENDIX B

Site Characterization Data



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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


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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD																
POD Number	Sub-Code	basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Distance	Depth	Depth	Water	
				64	16	4							Well	Water	Column	
C 02388		CUB	LE			3	05	25S	35E	651467	3558832*		1415	180	165	15

Average Depth to Water: **165 feet**

Minimum Depth: **165 feet**

Maximum Depth: **165 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 652756.93

Northing (Y): 3558248.73

Radius: 1600

*UTM location was derived from PLSS - see Help

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

7/26/22 3:42 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.


UTMNAD83 Radius Search (in meters):


Easting (X): 652762.3 **Northing (Y):** 3558246.33 **Radius:** 800


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.


7/22/22 11:12 AM


WATER COLUMN/ AVERAGE
DEPTH TO WATER

 <div style="text-align: center;"> WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220 </div>		BH or MW Name: BH01		Date: 11-01-2021					
		Site Name: Fez Fee 011H							
		RP or Incident Number: NAPP2118732077							
		WSP Job Number: 31402909.110							
LITHOLOGIC / SOIL SAMPLING LOG									
Lat/Long: 32.15092, -103.37879		Field Screening: N/A		Logged By					
				Method: Air Rotary					
		Hole Diameter: 6"		Total Depth: 105'					
				Depth to Water:					
Backfill or Well Construction Materials / Comments: Temporary 2" monitoring well set at 107' bgs, screen from 107-87', Borehole sealed at the surface to prevent runoff									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	Backfill / Well Completion
D					0-2	1	CCHE	CALICHE, DRY, OFF-WHITE TO TAN, WELL CONSOLIDATED, SOME REDDISH-BROWN FINE GRAINED SAND, NO STAIN, NO ODOR	
					2-7	2		SAND ABSENT, MODERATELY-POORLY CONSOLIDATED, VERY SILTY	
						3			
						4			
						5			
						6			
M					7-18	7	SW-S	SANDSTONE, MOIST, BROWN-LIGHT BROWN POORLY-MODERATELY CONSOLIDATED, WELL GRADED, FINE-MEDIUM GRAINED, TRACE-SUBANGULAR GRAVEL, NO STAIN, NO ODOR	
						8			
						9			
						10			
						11			
						12			
						13			
						14			
						15			
						16			
						17			
M					18-43	18	SP-S	SANDSTONE, MOIST, TAN-LIGHT BROWN, MODERATELY CONSOLIDATED, POORLY-GRADED, FINE GRAIN, TRACE SMALL OFF-WHITE COBBLE, NO STAIN, NO ODOR	
						19			
						20			
						21			
						22			
						23			
						24			
						25			

 <div style="text-align: center;"> WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220 </div>		BH or MW Name: BH01		Date: 11-01-2021					
		Site Name: Fez Fee 011H							
		RP or Incident Number: NAPP2118732077							
		WSP Job Number: 31402909.110							
LITHOLOGIC / SOIL SAMPLING LOG									
Lat/Long: 32.15092, -103.37879		Field Screening: N/A		Logged By					
				Method: Air Rotary					
		Hole Diameter: 6"		Total Depth: 105'					
				Depth to Water:					
Backfill or Well Construction Materials / Comments: Temporary 2" monitoring well set at 107' bgs, screen from 107-87', Borehole sealed at the surface to prevent runoff									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	Backfill / Well Completion
M					18-43	26	SP-S	SANDSTONE, MOIST, TAN-LIGHT BROWN, MODERATELY CONSOLIDATED, POORLY-GRADED, FINE GRAIN, TRACE SMALL OFF-WHITE COBBLE, NO STAIN, NO ODOR	
					27				
					28				
					29				
					30				
					31				
					32-43				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43-48				
					43				
					44				
					45				
					46				
					47				
					48-52				
48									
49									
50									
							SW-S	SANDSTONE, DRY, OFF-WHITE TO LIGHT GREY, MODERATELY-WELL CONSOLIDATED, FINE-VERY FINE GRAIN, WELL GRADED, NO STAIN, NO ODOR	
							SW-S	SANDSTONE, DRY, LIGHT BROWN-LIGHT YELLOW, MODERATELY-WELL CONSOLIDATED, FINE-MEDIUM GRAIN, WELL GRADED NO STAIN, NO ODOR	

 <div>WSP USA</div> <div>508 West Stevens Street Carlsbad, New Mexico 88220</div>				BH or MW Name: BH01		Date: 11-01-2021			
				Site Name: Fez Fee 011H					
				RP or Incident Number: NAPP2118732077					
				WSP Job Number: 31402909.110					
LITHOLOGIC / SOIL SAMPLING LOG									
Lat/Long: 32.15092, -103.37879			Field Screening: N/A		Hole Diameter: 6"		Total Depth: 105'		
							Depth to Water:		
Backfill or Well Construction Materials / Comments: Temporary 2" monitoring well set at 107' bgs, screen from 107-87', Borehole sealed at the surface to prevent runoff									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	Backfill / Well Completion
D					51	51	SW-S		
D					52-58	52	SW-S	SANDSTONE, DRY, OFF-WHITE TO TAN, MODERATE-WELL CONSOLIDATED, WELL-GRADED, FINE GRAIN, NO STAIN, NO ODOR	
						53			
						54			
						55			
						56			
						57			
D					58-101	58	SW-S	SANDSTONE, DRY, BROWN-LIGHT BROWN, MODERATELY CONSOLIDATED, WELL GRADED FINE-MEDIUM GRAIN, NO STAIN, NO ODOR	
						59			
						60			
						61			
						62			
						63			
						64			
						65			
						66			
						67			
						68			
						69			
						70			
						71			
						72			
						73			
						74			
						75		BEGIN ADDING WATER DOWNHOLE TO COOL OFF THE DRILL BIT	

 <div style="text-align: center;"> WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220 </div>								BH or MW Name: BH01		Date: 11-01-2021	
								Site Name: Fez Fee 011H			
								RP or Incident Number: NAPP2118732077			
								WSP Job Number: 31402909.110			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By		Method: Air Rotary	
Lat/Long: 32.15092, -103.37879				Field Screening: N/A				Hole Diameter: 6"		Total Depth: 105'	
										Depth to Water:	
Backfill or Well Construction Materials / Comments: Temporary 2" monitoring well set at 107' bgs, screen from 107-87', Borehole sealed at the surface to prevent runoff											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	Backfill / Well Completion		
						76	SW-S				
						77					
						78					
						79					
						80					
						81					
						82					
						83					
						84					
						85					
						86					
						87					
						88					
						89					
						90					
						91					
						92					
						93					
						94					
					95-100	95		VERY FINE GRAIN			
						96					
						97					
						98					
						99					
						100					

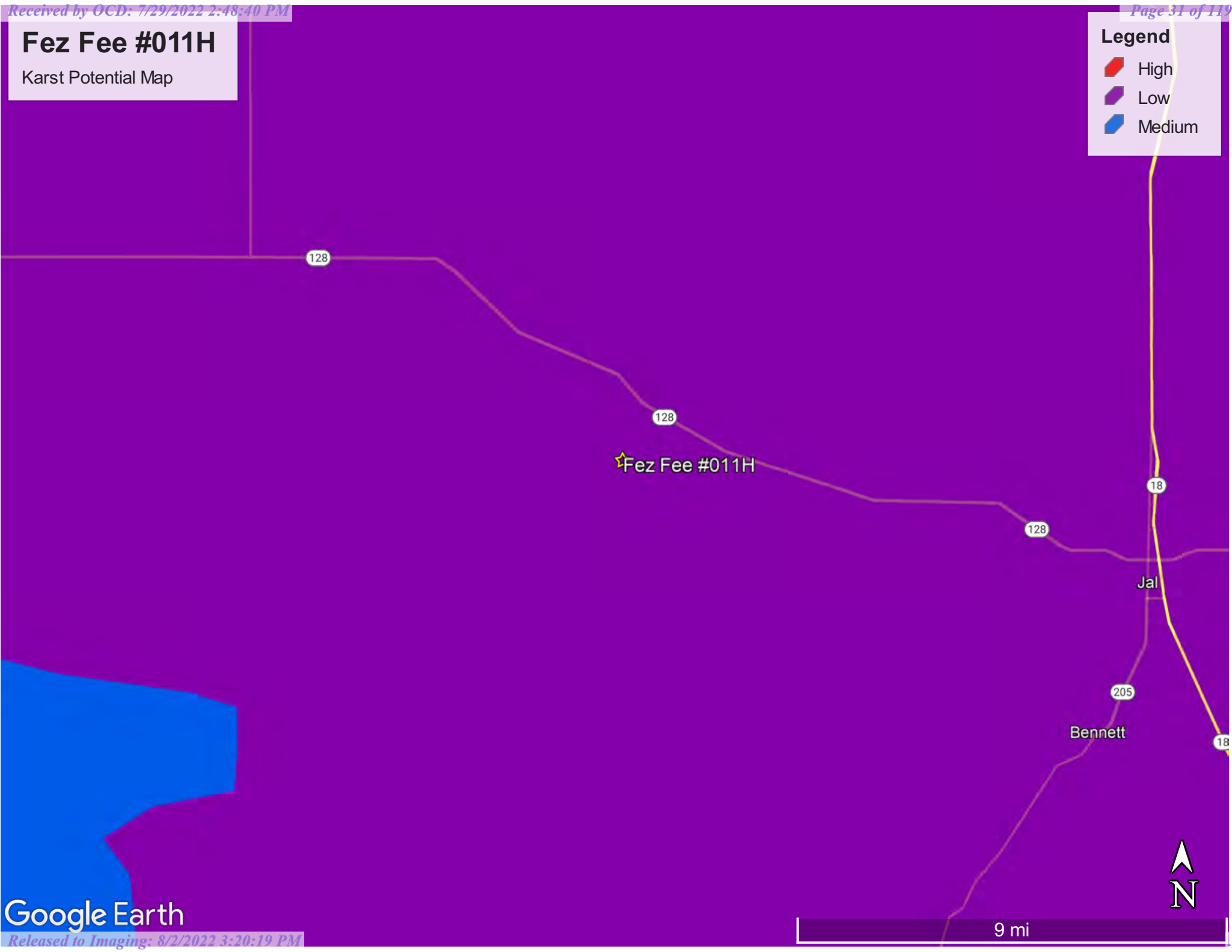
 <p>WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220</p>		BH or MW Name: BH01		Date: 11-01-2021					
		Site Name: Fez Fee 011H							
		RP or Incident Number: NAPP2118732077							
		WSP Job Number: 31402909.110							
LITHOLOGIC / SOIL SAMPLING LOG									
Lat/Long: 32.15092, -103.37879		Field Screening: N/A		Logged By					
				Method: Air Rotary					
		Hole Diameter: 6"		Total Depth: 105'					
				Depth to Water:					
Backfill or Well Construction Materials / Comments: Temporary 2" monitoring well set at 107' bgs, screen from 107-87', Borehole sealed at the surface to prevent runoff									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	Backfill / Well Completion
M					101-107	101	CH-S	CLAYSTONE, MOIST, DARK REDDISH BROWN, WELL CONSOLIDATED, HIGH PLASTICITY, COHESIVE, TRACE VERY FINE GRAIN SAND, NO STAIN, NO ODOR	
						102			
						103			
						104			
						105			
						106			
						107			
TD @ 107 FT BGS									

Fez Fee #011H

Karst Potential Map

Legend

- High
- Low
- Medium

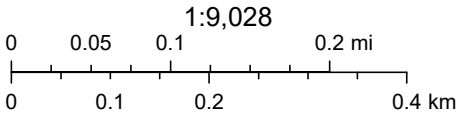


Google Earth



3/23/2022, 1:27:31 PM

- | | | | | | | | | |
|---------------------|---|----------------------------|---|----------------|---|----------------------------|---|--------------------|
| Wells - Large Scale | ✱ | CO2, Cancelled | ✱ | Gas, Active | ✱ | Gas, Temporarily Abandoned | ✱ | Injection, Plugged |
| ? undefined | ✱ | CO2, New | ✱ | Gas, Cancelled | ✱ | Injection, Active | ✱ | |
| ● Miscellaneous | ✱ | CO2, Plugged | ✱ | Gas, New | ✱ | Injection, Cancelled | ✱ | |
| ✱ CO2, Active | ✱ | CO2, Temporarily Abandoned | ✱ | Gas, Plugged | ✱ | Injection, New | ✱ | |



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources

APPENDIX C

Laboratory Analytical Data



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

March 29, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: FEZ FEE # 11H

Enclosed are the results of analyses for samples received by the laboratory on 03/25/22 12:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 03/25/2022
 Reported: 03/29/2022
 Project Name: FEZ FEE # 11H
 Project Number: 212C - MD - 02712
 Project Location: LEA CO NM

Sampling Date: 03/25/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: AH - 1 (0.5' - 1.5') (H221189-01)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2022	ND	1.79	89.3	2.00	2.77	QM-07
Toluene*	<0.050	0.050	03/29/2022	ND	2.00	100	2.00	3.08	
Ethylbenzene*	<0.050	0.050	03/29/2022	ND	2.11	106	2.00	2.54	
Total Xylenes*	<0.150	0.150	03/29/2022	ND	6.57	109	6.00	2.55	
Total BTEX	<0.300	0.300	03/29/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	03/28/2022	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	196	97.9	200	1.33	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	225	113	200	3.99	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 86.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.6 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 03/25/2022
 Reported: 03/29/2022
 Project Name: FEZ FEE # 11H
 Project Number: 212C - MD - 02712
 Project Location: LEA CO NM

Sampling Date: 03/25/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: AH - 1 (2' - 3') (H221189-02)

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2022	ND	1.79	89.3	2.00	2.77	
Toluene*	<0.050	0.050	03/28/2022	ND	2.00	100	2.00	3.08	
Ethylbenzene*	<0.050	0.050	03/28/2022	ND	2.11	106	2.00	2.54	
Total Xylenes*	<0.150	0.150	03/28/2022	ND	6.57	109	6.00	2.55	
Total BTEx	<0.300	0.300	03/28/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	03/28/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	196	97.9	200	1.33	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	225	113	200	3.99	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 96.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.1 % 59.5-142

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 03/25/2022
 Reported: 03/29/2022
 Project Name: FEZ FEE # 11H
 Project Number: 212C - MD - 02712
 Project Location: LEA CO NM

Sampling Date: 03/25/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: AH - 2 (0.5' - 1.5') (H221189-03)

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2022	ND	1.79	89.3	2.00	2.77	
Toluene*	<0.050	0.050	03/28/2022	ND	2.00	100	2.00	3.08	
Ethylbenzene*	<0.050	0.050	03/28/2022	ND	2.11	106	2.00	2.54	
Total Xylenes*	<0.150	0.150	03/28/2022	ND	6.57	109	6.00	2.55	
Total BTX	<0.300	0.300	03/28/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2320	16.0	03/28/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	196	97.9	200	1.33	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	225	113	200	3.99	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 89.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.7 % 59.5-142

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 03/25/2022
 Reported: 03/29/2022
 Project Name: FEZ FEE # 11H
 Project Number: 212C - MD - 02712
 Project Location: LEA CO NM

Sampling Date: 03/25/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: AH - 2 (2' - 3') (H221189-04)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2022	ND	1.79	89.3	2.00	2.77		
Toluene*	<0.050	0.050	03/28/2022	ND	2.00	100	2.00	3.08		
Ethylbenzene*	<0.050	0.050	03/28/2022	ND	2.11	106	2.00	2.54		
Total Xylenes*	<0.150	0.150	03/28/2022	ND	6.57	109	6.00	2.55		
Total BTEx	<0.300	0.300	03/28/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/28/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	196	97.9	200	1.33	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	225	113	200	3.99	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 89.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.6 % 59.5-142

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 03/25/2022
 Reported: 03/29/2022
 Project Name: FEZ FEE # 11H
 Project Number: 212C - MD - 02712
 Project Location: LEA CO NM

Sampling Date: 03/25/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 1 (0' - 1') (H221189-05)

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2022	ND	1.79	89.3	2.00	2.77		
Toluene*	<0.050	0.050	03/28/2022	ND	2.00	100	2.00	3.08		
Ethylbenzene*	<0.050	0.050	03/28/2022	ND	2.11	106	2.00	2.54		
Total Xylenes*	<0.150	0.150	03/28/2022	ND	6.57	109	6.00	2.55		
Total BTX	<0.300	0.300	03/28/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/28/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	196	97.9	200	1.33	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	225	113	200	3.99	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 83.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.0 % 59.5-142

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 03/25/2022
 Reported: 03/29/2022
 Project Name: FEZ FEE # 11H
 Project Number: 212C - MD - 02712
 Project Location: LEA CO NM

Sampling Date: 03/25/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 1 (2' - 3') (H221189-06)

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2022	ND	1.79	89.3	2.00	2.77	
Toluene*	<0.050	0.050	03/28/2022	ND	2.00	100	2.00	3.08	
Ethylbenzene*	<0.050	0.050	03/28/2022	ND	2.11	106	2.00	2.54	
Total Xylenes*	<0.150	0.150	03/28/2022	ND	6.57	109	6.00	2.55	
Total BTEX	<0.300	0.300	03/28/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/28/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	196	97.9	200	1.33	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	225	113	200	3.99	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 90.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.0 % 59.5-142

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 03/25/2022
 Reported: 03/29/2022
 Project Name: FEZ FEE # 11H
 Project Number: 212C - MD - 02712
 Project Location: LEA CO NM

Sampling Date: 03/25/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 2 (0' - 1') (H221189-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2022	ND	1.75	87.6	2.00	3.27	
Toluene*	<0.050	0.050	03/28/2022	ND	1.97	98.7	2.00	3.23	
Ethylbenzene*	<0.050	0.050	03/28/2022	ND	2.00	99.9	2.00	2.80	
Total Xylenes*	<0.150	0.150	03/28/2022	ND	6.23	104	6.00	2.51	
Total BTX	<0.300	0.300	03/28/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	03/28/2022	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	196	97.9	200	1.33	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	225	113	200	3.99	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 92.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.3 % 59.5-142

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 03/25/2022
 Reported: 03/29/2022
 Project Name: FEZ FEE # 11H
 Project Number: 212C - MD - 02712
 Project Location: LEA CO NM

Sampling Date: 03/25/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 2 (2' - 3') (H221189-08)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2022	ND	1.75	87.6	2.00	3.27		
Toluene*	<0.050	0.050	03/28/2022	ND	1.97	98.7	2.00	3.23		
Ethylbenzene*	<0.050	0.050	03/28/2022	ND	2.00	99.9	2.00	2.80		
Total Xylenes*	<0.150	0.150	03/28/2022	ND	6.23	104	6.00	2.51		
Total BTX	<0.300	0.300	03/28/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/28/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	196	97.9	200	1.33	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	225	113	200	3.99	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 133 % 66.9-136

Surrogate: 1-Chlorooctadecane 162 % 59.5-142

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 03/25/2022
 Reported: 03/29/2022
 Project Name: FEZ FEE # 11H
 Project Number: 212C - MD - 02712
 Project Location: LEA CO NM

Sampling Date: 03/25/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 3 (0' - 1') (H221189-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2022	ND	1.75	87.6	2.00	3.27	
Toluene*	<0.050	0.050	03/28/2022	ND	1.97	98.7	2.00	3.23	
Ethylbenzene*	<0.050	0.050	03/28/2022	ND	2.00	99.9	2.00	2.80	
Total Xylenes*	<0.150	0.150	03/28/2022	ND	6.23	104	6.00	2.51	
Total BTX	<0.300	0.300	03/28/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/28/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	196	97.9	200	1.33	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	225	113	200	3.99	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 95.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.7 % 59.5-142

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 03/25/2022
 Reported: 03/29/2022
 Project Name: FEZ FEE # 11H
 Project Number: 212C - MD - 02712
 Project Location: LEA CO NM

Sampling Date: 03/25/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 3 (2' - 4') (H221189-10)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2022	ND	1.75	87.6	2.00	3.27	
Toluene*	<0.050	0.050	03/28/2022	ND	1.97	98.7	2.00	3.23	
Ethylbenzene*	<0.050	0.050	03/28/2022	ND	2.00	99.9	2.00	2.80	
Total Xylenes*	<0.150	0.150	03/28/2022	ND	6.23	104	6.00	2.51	
Total BTX	<0.300	0.300	03/28/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/28/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	213	107	200	0.851	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	222	111	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.0 % 59.5-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 03/25/2022
 Reported: 03/29/2022
 Project Name: FEZ FEE # 11H
 Project Number: 212C - MD - 02712
 Project Location: LEA CO NM

Sampling Date: 03/25/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 4 (0' - 1') (H221189-11)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2022	ND	1.75	87.6	2.00	3.27		
Toluene*	<0.050	0.050	03/28/2022	ND	1.97	98.7	2.00	3.23		
Ethylbenzene*	<0.050	0.050	03/28/2022	ND	2.00	99.9	2.00	2.80		
Total Xylenes*	<0.150	0.150	03/28/2022	ND	6.23	104	6.00	2.51		
Total BTEX	<0.300	0.300	03/28/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/28/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	213	107	200	0.851	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	222	111	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 90.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.4 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 03/25/2022
 Reported: 03/29/2022
 Project Name: FEZ FEE # 11H
 Project Number: 212C - MD - 02712
 Project Location: LEA CO NM

Sampling Date: 03/25/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 4 (2' - 3') (H221189-12)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2022	ND	1.75	87.6	2.00	3.27		
Toluene*	<0.050	0.050	03/28/2022	ND	1.97	98.7	2.00	3.23		
Ethylbenzene*	<0.050	0.050	03/28/2022	ND	2.00	99.9	2.00	2.80		
Total Xylenes*	<0.150	0.150	03/28/2022	ND	6.23	104	6.00	2.51		
Total BTEx	<0.300	0.300	03/28/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/28/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	213	107	200	0.851	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	222	111	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 99.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Cardinal Pharms		P.O. #:	
Project Manager: Christina Lull		Company: Tetra Tech	
Address:		Attn: Christina Lull	
City:		Address: by email	
State:		City:	
Zip:		State:	
Phone #:		Zip:	
Fax #:		Phone #:	
Project #: 2106-MD-02712		Project Owner:	
Project Name: Fee Fee #111		Fax #:	
Project Location: Lee County, NY		PRESERV	
Sampler Name: Colton Brakes		SAMPLING	

FOR LAB USE ONLY		BILL TO		ANALYSIS REQUEST	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV
				GROUNDWATER	
				WASTEWATER	
				SOIL	
				OIL	
				SLUDGE	
				OTHER :	
				ACID/BASE:	
				ICE / COOL	
				OTHER :	
				DATE	TIME

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---	---



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/12

Company Name: <u>Cardinal Phillips</u> Project Manager: <u>Christina Webb</u> Address: City: State: Zip: Phone #: Fax #: Project #: <u>202-MD-02712</u> Project Name: <u>Per Fee #114</u> Project Location: <u>Lea County, NM</u> Sampler Name: <u>Coleen Bikenstaff</u>		P.O. #: Company: <u>Tetra Tech</u> Attn: <u>Christina Webb</u> Address: <u>by email</u> City: State: Zip: Phone #: Fax #:	
FOR LAB USE ONLY		BILL TO	
Lab I.D. <u>H221189</u> <u>11 H-4 (6-1)</u> <u>12 H-4 (2-3)</u>		ANALYSIS REQUEST	
Sample I.D.		DATE <u>3/19/22</u> TIME <u>3:05 PM</u>	
(G)RAB OR (C)OMP. # CONTAINERS MATRIX GROUNDWATER WASTEWATER SOIL <input checked="" type="checkbox"/> OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:		PRESERV SAMPLING	
Relinquished By: <u>Coleen Bikenstaff</u> Date: <u>3/19/22</u> Time: <u>12:05</u> Received By: <u>Christina Webb</u> Date: <u>3/19/22</u> Time: <u>12:05</u>		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: Remarks: <u>Christina Webb@tetratech.com</u>	
Delivered By: (Circle One) Sample - UPS - Bus - Other:		Observed Temp. °C <u>23.38</u> Corrected Temp. °C <u>22.88</u> Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> CHECKED BY: <u>[Signature]</u>	
Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C Corrected Temp. °C		Thermometer ID #113 Correction Factor -0.5°C	

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

APPENDIX D

Photographic Documentation



TETRA TECH, INC. PROJECT NO. 212C-MD-02712	DESCRIPTION	View east. Release extent.	1
	SITE NAME	Fez Fee #011H Line Release	3/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02712	DESCRIPTION	View west. Release area on the southern side of the tank battery.	2
	SITE NAME	Fez Fee #011H Line Release	3/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02712	DESCRIPTION	View south. Site signage.	3
	SITE NAME	Fez Fee #011H Line Release	3/10/2022



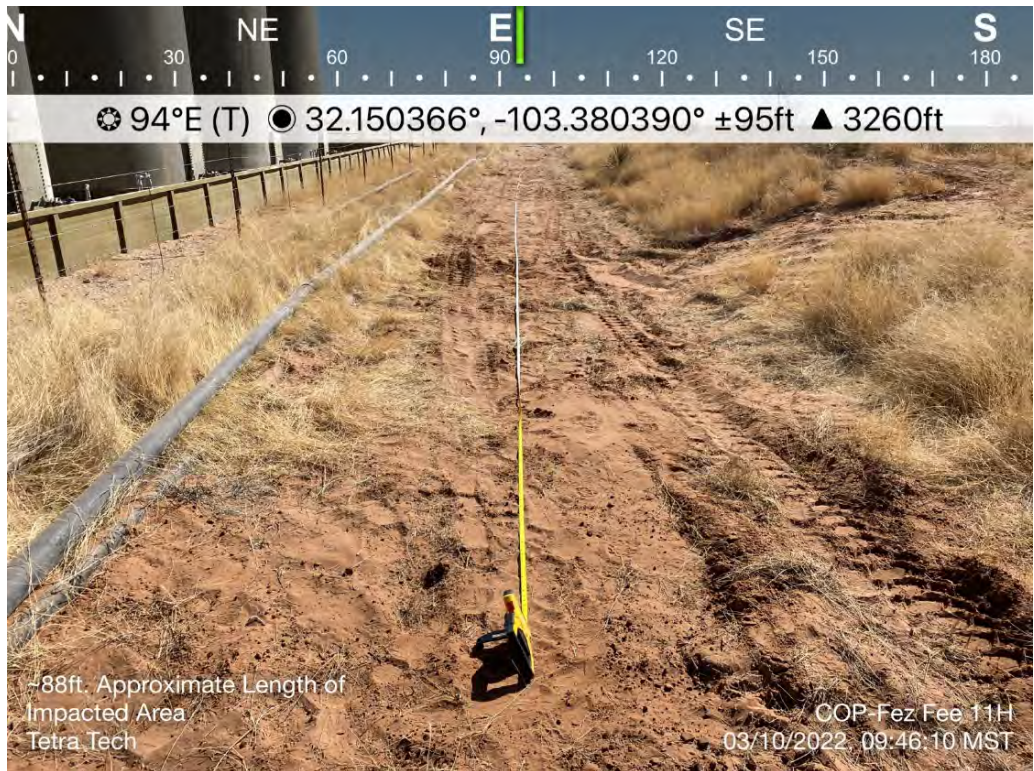
TETRA TECH, INC. PROJECT NO. 212C-MD-02712	DESCRIPTION	View west. Initial response footprint.	4
	SITE NAME	Fez Fee #011H Line Release	3/10/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02712	DESCRIPTION	View east. Initial response footprint.	5
	SITE NAME	Fez Fee #011H Line Release	3/10/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02712	DESCRIPTION	View north. Approximate release location.	6
	SITE NAME	Fez Fee #011H Line Release	3/10/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02712	DESCRIPTION	View east. Eastern portion of release area.	7
	SITE NAME	Fez Fee #011H Line Release	3/10/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02712	DESCRIPTION	View east. Facility lines located west of release area.	8
	SITE NAME	Fez Fee #011H Line Release	3/10/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02712	DESCRIPTION	View west-southwest. Remediated area south of tank battery.	9
	SITE NAME	Fez Fee #011H Line Release	7/8/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02712	DESCRIPTION	View west. Remediated area south of tank battery.	10
	SITE NAME	Fez Fee #011H Line Release	7/11/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02712	DESCRIPTION	View northwest. Backfilling of remediated area.	11
	SITE NAME	Fez Fee #011H Line Release	7/12/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02712	DESCRIPTION	View west. Seeding of remediated and backfilled area.	12
	SITE NAME	Fez Fee #011H Line Release	7/12/2022

APPENDIX E

Regulatory Correspondence

From: [Nobui, Jennifer, EMNRD](#)
To: [Chama, Sam](#)
Cc: [Bratcher, Mike, EMNRD](#); [Hamlet, Robert, EMNRD](#); [Harimon, Jocelyn, EMNRD](#)
Subject: FW: [EXTERNAL] Incident ID (N#) NAPP2207444703
Date: Tuesday, July 5, 2022 3:53:33 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

Sam

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,
Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Sent: Tuesday, July 5, 2022 2:44 PM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Subject: Fw: [EXTERNAL] Incident ID (N#) NAPP2207444703

From: Chama, Sam <SAM.CHAMA@tetrattech.com>
Sent: Tuesday, July 5, 2022 9:39 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Cc: Poole, Nicholas <NICHOLAS.POOLE@tetrattech.com>
Subject: [EXTERNAL] Incident ID (N#) NAPP2207444703

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To whom it may concern,

In accordance with Subsection D of 19.15.29.12 NMAC, the responsible party must notify the appropriate division district office prior to conducting confirmation sampling. Thus, on behalf of ConocoPhillips for the above referenced incident, Tetra Tech is duly providing this communication which serves as notification that confirmation sampling will be conducted at this site from July 7 through July 12, 2022.

For any questions regarding this sampling schedule, please contact me (Sam Chama).

Thank you,

Sam Chama, G.I.T. | Staff Geologist

Mobile +1 (509) 768-2191 | Business +1 (512) 338-1667 | Fax +1 (512) 338-1331 | sam.chama@tetrattech.com

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8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | tetrattech.com

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Please consider the environment before printing. [Read more](#)



From: [Beauvais, Charles R](#)
To: [Lull, Christian](#)
Subject: FW: [EXTERNAL] (Extension Request 1) Fez Fee #011H Line Release incident (NAPP2207444703)
Date: Thursday, May 19, 2022 12:53:16 PM
Attachments: [image001.png](#)
[FIGURES.pdf](#)
[TABLE.pdf](#)

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

FYI

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Sent: Wednesday, May 18, 2022 2:39 PM
To: Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>
Cc: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>
Subject: FW: [EXTERNAL] (Extension Request 1) Fez Fee #011H Line Release incident (NAPP2207444703)

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Charles

Your request for a 90-day extension to **August 19, 2022** is approved to submit a Closure Report. Please include this e-mail correspondence in the remediation and/or closure report.

Thanks,
Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Sent: Wednesday, May 18, 2022 12:52 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>
Subject: Fw: [EXTERNAL] (Extension Request 1) Fez Fee #011H Line Release incident (NAPP2207444703)

From: Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>
Sent: Wednesday, May 18, 2022 12:49 PM
To: Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>; EMNRD-OCD-District1spills

<EMNRD-OCD-District1spills@state.nm.us>; Hamlet, Robert, EMNRD
<Robert.Hamlet@state.nm.us>; Esparza, Brittany <Brittany.Esparza@conocophillips.com>; Enviro,
OCD, EMNRD <OCD.Enviro@state.nm.us>
Cc: Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>
Subject: [EXTERNAL] (Extension Request 1) Fez Fee #011H Line Release incident (NAPP2207444703)

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To whom it may concern:

ConocoPhillips is requesting a 90-day extension (until September 1, 2022) to complete the remediation and associated reporting for the Fez Fee #011H Line Release incident **(NAPP2207444703)**.

Justification for this request, including figures and analytical data showing the project progress of ConocoPhillips is attached and described below.

In March 2022, on behalf of COP, Tetra Tech personnel completed six soil borings at the release site to approximately 3' ft below ground surface using a hand auger. Please see Figure 3. The borings were completed to vertically delineate and/or horizontally define the release extent. Please see attached laboratory analytical results.

A Site characterization has been completed.

Based on the most laboratory analytical results, impact at the release site is delineated.

Both a remediation work plan and confirmation sampling plan have been prepared.

COP plans to conduct remediation in the coming month.

Once the confirmation sampling data is collected, tabulated, and evaluated, a closure report will be submitted to the OCD.

Thank you in advance.

Respectfully,

Charles R. Beauvais II

Senior Environmental Engineer | Environmental Operations | **ConocoPhillips**

(M) 575-988-2043

Charles.R.Beauvais@conocophillips.com

Our work is never so urgent or important that we cannot take the time to do it safely and in an environmentally responsible manner.



APPENDIX F

Laboratory Analytical Data



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

July 07, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: FEZ FEE # 11H

Enclosed are the results of analyses for samples received by the laboratory on 07/06/22 16:35.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/07/2022	Sampling Type:	Soil
Project Name:	FEZ FEE # 11H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02712 LINE RELEASE REM.	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: FS - 1 (H222899-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	0.983	
Toluene*	<0.050	0.050	07/07/2022	ND	2.18	109	2.00	0.432	
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	1.01	
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.72	112	6.00	1.30	
Total BTX	<0.300	0.300	07/07/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3440	16.0	07/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2022	ND	193	96.6	200	1.53	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	185	92.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane 84.4 % 43-149

Surrogate: 1-Chlorooctadecane 90.4 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/07/2022	Sampling Type:	Soil
Project Name:	FEZ FEE # 11H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02712 LINE RELEASE REM.	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: FS - 2 (H222899-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	0.983		
Toluene*	<0.050	0.050	07/07/2022	ND	2.18	109	2.00	0.432		
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	1.01		
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.72	112	6.00	1.30		
Total BTEx	<0.300	0.300	07/07/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12200	16.0	07/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2022	ND	193	96.6	200	1.53	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	185	92.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane 98.8 % 43-149

Surrogate: 1-Chlorooctadecane 106 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/07/2022	Sampling Type:	Soil
Project Name:	FEZ FEE # 11H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02712 LINE RELEASE REM.	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: FS - 3 (H222899-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	0.983		
Toluene*	<0.050	0.050	07/07/2022	ND	2.18	109	2.00	0.432		
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	1.01		
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.72	112	6.00	1.30		
Total BTEX	<0.300	0.300	07/07/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	07/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2022	ND	193	96.6	200	1.53	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	185	92.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane 90.7 % 43-149

Surrogate: 1-Chlorooctadecane 98.5 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/07/2022	Sampling Type:	Soil
Project Name:	FEZ FEE # 11H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02712 LINE RELEASE REM.	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: FS - 4 (H222899-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	0.983		
Toluene*	<0.050	0.050	07/07/2022	ND	2.18	109	2.00	0.432		
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	1.01		
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.72	112	6.00	1.30		
Total BTEx	<0.300	0.300	07/07/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2022	ND	193	96.6	200	1.53	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	185	92.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane 99.3 % 43-149

Surrogate: 1-Chlorooctadecane 106 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/07/2022	Sampling Type:	Soil
Project Name:	FEZ FEE # 11H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02712 LINE RELEASE REM.	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: FS - 5 (H222899-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	0.983		
Toluene*	<0.050	0.050	07/07/2022	ND	2.18	109	2.00	0.432		
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	1.01		
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.72	112	6.00	1.30		
Total BTEx	<0.300	0.300	07/07/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	07/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2022	ND	193	96.6	200	1.53	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	185	92.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 43-149

Surrogate: 1-Chlorooctadecane 99.1 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/07/2022	Sampling Type:	Soil
Project Name:	FEZ FEE # 11H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02712 LINE RELEASE REM.	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: SSW -1 (H222899-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	0.983		
Toluene*	<0.050	0.050	07/07/2022	ND	2.18	109	2.00	0.432		
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	1.01		
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.72	112	6.00	1.30		
Total BTEx	<0.300	0.300	07/07/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	07/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2022	ND	193	96.6	200	1.53	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	185	92.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane 107 % 43-149

Surrogate: 1-Chlorooctadecane 116 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/07/2022	Sampling Type:	Soil
Project Name:	FEZ FEE # 11H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02712 LINE RELEASE REM.	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: SSW -2 (H222899-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	0.983		
Toluene*	<0.050	0.050	07/07/2022	ND	2.18	109	2.00	0.432		
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	1.01		
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.72	112	6.00	1.30		
Total BTEx	<0.300	0.300	07/07/2022	ND						

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

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2022	ND	193	96.6	200	1.53	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	185	92.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane 112 % 43-149

Surrogate: 1-Chlorooctadecane 122 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/07/2022	Sampling Type:	Soil
Project Name:	FEZ FEE # 11H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02712 LINE RELEASE REM.	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: ESW -1 (H222899-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	0.983		
Toluene*	<0.050	0.050	07/07/2022	ND	2.18	109	2.00	0.432		
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	1.01		
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.72	112	6.00	1.30		
Total BTEX	<0.300	0.300	07/07/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/07/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2022	ND	193	96.6	200	1.53	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	185	92.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane 109 % 43-149

Surrogate: 1-Chlorooctadecane 118 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

July 08, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: FEZ FEE # 11H

Enclosed are the results of analyses for samples received by the laboratory on 07/07/22 15:52.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	FEZ FEE # 11H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02712	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA CO NM		

Sample ID: NSW -1 (H222926-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.27		
Toluene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.59		
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	1.83		
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.51	109	6.00	0.899		
Total BTEX	<0.300	0.300	07/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/08/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	187	93.7	200	28.5	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	189	94.6	200	28.8	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 85.5 % 43-149

Surrogate: 1-Chlorooctadecane 103 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/07/2022
 Reported: 07/08/2022
 Project Name: FEZ FEE # 11H
 Project Number: 212C - MD - 02712
 Project Location: COP - LEA CO NM

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

Sample ID: NSW -2 (H222926-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.27	
Toluene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.59	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.51	109	6.00	0.899	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/08/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	187	93.7	200	28.5	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	189	94.6	200	28.8	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 84.6 % 43-149

Surrogate: 1-Chlorooctadecane 102 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/07/2022
 Reported: 07/08/2022
 Project Name: FEZ FEE # 11H
 Project Number: 212C - MD - 02712
 Project Location: COP - LEA CO NM

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

Sample ID: NSW -3 (H222926-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.27		
Toluene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.59		
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	1.83		
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.51	109	6.00	0.899		
Total BTEX	<0.300	0.300	07/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/08/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	187	93.7	200	28.5	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	189	94.6	200	28.8	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 79.5 % 43-149

Surrogate: 1-Chlorooctadecane 97.4 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/07/2022
 Reported: 07/08/2022
 Project Name: FEZ FEE # 11H
 Project Number: 212C - MD - 02712
 Project Location: COP - LEA CO NM

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

Sample ID: WSW -1 (H222926-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.27		
Toluene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.59		
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	1.83		
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.51	109	6.00	0.899		
Total BTEX	<0.300	0.300	07/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/08/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	187	93.7	200	28.5	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	189	94.6	200	28.8	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 80.3 % 43-149

Surrogate: 1-Chlorooctadecane 97.9 % 42.5-161

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/07/2022
 Reported: 07/08/2022
 Project Name: FEZ FEE # 11H
 Project Number: 212C - MD - 02712
 Project Location: COP - LEA CO NM

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

Sample ID: FS - 6 (H222926-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.27	
Toluene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.59	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.51	109	6.00	0.899	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3400	16.0	07/08/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	187	93.7	200	28.5	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	189	94.6	200	28.8	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 79.7 % 43-149

Surrogate: 1-Chlorooctadecane 96.9 % 42.5-161

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

July 11, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: FEZ FEE # 11H

Enclosed are the results of analyses for samples received by the laboratory on 07/08/22 13:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/08/2022
 Reported: 07/11/2022
 Project Name: FEZ FEE # 11H
 Project Number: 212C - MD - 02712
 Project Location: COP - LEA CO NM

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

Sample ID: FS - 3 (2.5') (H222943-01)

BTEX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	2.09	104	2.00	0.562	
Toluene*	<0.050	0.050	07/08/2022	ND	2.10	105	2.00	1.95	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.10	105	2.00	4.15	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.41	107	6.00	2.87	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.5 % 69.9-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	07/11/2022	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2022	ND	191	95.5	200	21.8	
DRO >C10-C28*	<10.0	10.0	07/11/2022	ND	183	91.5	200	19.6	
EXT DRO >C28-C36	<10.0	10.0	07/11/2022	ND					

Surrogate: 1-Chlorooctane 94.9 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/08/2022
 Reported: 07/11/2022
 Project Name: FEZ FEE # 11H
 Project Number: 212C - MD - 02712
 Project Location: COP - LEA CO NM

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

Sample ID: FS - 2 (2.5') (H222943-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	2.09	104	2.00	0.562	
Toluene*	<0.050	0.050	07/08/2022	ND	2.10	105	2.00	1.95	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.10	105	2.00	4.15	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.41	107	6.00	2.87	
Total BTX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/11/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2022	ND	191	95.5	200	21.8	
DRO >C10-C28*	<10.0	10.0	07/11/2022	ND	183	91.5	200	19.6	
EXT DRO >C28-C36	<10.0	10.0	07/11/2022	ND					

Surrogate: 1-Chlorooctane 94.0 % 43-149

Surrogate: 1-Chlorooctadecane 103 % 42.5-161

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/08/2022
 Reported: 07/11/2022
 Project Name: FEZ FEE # 11H
 Project Number: 212C - MD - 02712
 Project Location: COP - LEA CO NM

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

Sample ID: FS - 1 (2.5') (H222943-03)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	2.09	104	2.00	0.562	
Toluene*	<0.050	0.050	07/08/2022	ND	2.10	105	2.00	1.95	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.10	105	2.00	4.15	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.41	107	6.00	2.87	
Total BTX	<0.300	0.300	07/08/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/11/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2022	ND	191	95.5	200	21.8	
DRO >C10-C28*	<10.0	10.0	07/11/2022	ND	183	91.5	200	19.6	
EXT DRO >C28-C36	<10.0	10.0	07/11/2022	ND					

Surrogate: 1-Chlorooctane 84.9 % 43-149

Surrogate: 1-Chlorooctadecane 91.8 % 42.5-161

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/08/2022
 Reported: 07/11/2022
 Project Name: FEZ FEE # 11H
 Project Number: 212C - MD - 02712
 Project Location: COP - LEA CO NM

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

Sample ID: FS - 6 (2.5') (H222943-04)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	2.09	104	2.00	0.562	
Toluene*	<0.050	0.050	07/08/2022	ND	2.10	105	2.00	1.95	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.10	105	2.00	4.15	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.41	107	6.00	2.87	
Total BTX	<0.300	0.300	07/08/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	07/11/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2022	ND	191	95.5	200	21.8	
DRO >C10-C28*	<10.0	10.0	07/11/2022	ND	183	91.5	200	19.6	
EXT DRO >C28-C36	<10.0	10.0	07/11/2022	ND					

Surrogate: 1-Chlorooctane 94.6 % 43-149

Surrogate: 1-Chlorooctadecane 102 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 07/08/2022
 Reported: 07/11/2022
 Project Name: FEZ FEE # 11H
 Project Number: 212C - MD - 02712
 Project Location: COP - LEA CO NM

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

Sample ID: SSW - 1 (3') (H222943-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/08/2022	ND	2.09	104	2.00	0.562		
Toluene*	<0.050	0.050	07/08/2022	ND	2.10	105	2.00	1.95		
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.10	105	2.00	4.15		
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.41	107	6.00	2.87		
Total BTEx	<0.300	0.300	07/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	07/11/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2022	ND	191	95.5	200	21.8	
DRO >C10-C28*	<10.0	10.0	07/11/2022	ND	183	91.5	200	19.6	
EXT DRO >C28-C36	<10.0	10.0	07/11/2022	ND					

Surrogate: 1-Chlorooctane 97.7 % 43-149

Surrogate: 1-Chlorooctadecane 107 % 42.5-161

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech Project Manager: Christian Lull Address: 901 W. Wall St City: Midland State: TX Zip: 79701 Phone #: 432-334-9756 Fax #: Project #: 212C-MD-0271 Project Owner: COP Project Name: Fez Fee # Oil/H Line Release Project Location: Lea County, NM Sampler Name: Gabre Huerfano FOR LAB USE ONLY				BILL TO P.O. #: Company: Tetra Tech Attn: Christian Lull Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST			
Lab I.D. 422943		Sample I.D.		FOR LAB USE ONLY		FOR LAB USE ONLY		FOR LAB USE ONLY		FOR LAB USE ONLY	
FS-3 (2.5') FS-2 (2.5') FS-1 (2.5') FS-0 (2.5') SW-1 (3')		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		MATRIX PRESERV. SAMPLING		DATE TIME		TPH BTEX Chloride			
1 2 3 4 5		1 1 1 1 1		1 1 1 1 1		7-8-22 1210 7-8-22 1230 7-8-22 1240 7-8-22 1250		1 1 1 1 1			
PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.											
Relinquished By: Gabriel Huerfano				Received By: Christian Lull				REMARKS: Christian, Lull @ tetratech.com			
Date: 7-8-22 Time: 1350				Date: 7-8-22 Time: 1350				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address:			
Relinquished By: Gabriel Huerfano				Received By: Christian Lull				REMARKS: Christian, Lull @ tetratech.com			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Observed Temp. °C 9.3 Corrected Temp. °C 8.8				Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>			
Turnaround Time:				Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>				Bacteria (only) <input type="checkbox"/> Sample Condition <input checked="" type="checkbox"/>			
Thermometer ID #113 Correction Factor -0.5°C				24 hr <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>				Observed Temp. °C Corrected Temp. °C			

APPENDIX G

Waste Manifests



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: CHARLES BEAUVAIS
AFE #:
PO #:
Manifest #: 1
Manif. Date: 7/6/2022
Hauler: MCNABB PARTNERS
Driver: TONY
Truck #: M02
Card #
Job Ref #

Ticket #: 700-1322243
Bid #: O6UJ9A000JEC
Date: 7/6/2022
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #: 42347L
Well Name: FEZ FEE
Well #: 11H
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

8.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

**Permian Basin**

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: CHARLES BEAUVAIS
AFE #:
PO #:
Manifest #: 2
Manif. Date: 7/7/2022
Hauler: MCNABB PARTNERS
Driver: GUMER
Truck #: M31
Card #
Job Ref #

Ticket #: 700-1322625
Bid #: O6UJ9A000JEC
Date: 7/7/2022
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #: 42347L
Well Name: FEZ FEE
Well #: 11H
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service**Quantity Units****Contaminated Soil (RCRA Exempt)**

16.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature**R360 Representative Signature****Customer Approval****THIS IS NOT AN INVOICE!**

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: CHARLES BEAUVAIS
AFE #:
PO #:
Manifest #: 2
Manif. Date: 7/7/2022
Hauler: MCNABB PARTNERS
Driver: GUMER
Truck #: M31
Card #
Job Ref #

Ticket #: 700-1322532
Bid #: O6UJ9A000JEC
Date: 7/7/2022
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #: 42347L
Well Name: FEZ FEE
Well #: 11H
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

16.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Customer Copy

Northern Delaware Basin Landfill
2029 West NM Hwy 128
Jal NM 88252

----WASTE TICKET----

Ticket # 129076

Start:07/08/2022 10:08 AM

End:07/08/2022 10:20 AM

By:owl.angela

GROSS	TARE	NET
Contaminated Soil		
20	00	20
Hauler: McNabb Partners		
Driver: John Belew		
Lease: Faz Fee		
Well: 11H		
AFE #: N/A		
County, State: LEA (NM)		
API #: 3002542347		
Manifest #: 0187376		
Client Company Man: Charles Beauvais		
Rig Name & Number: N/A		
Trucking Co Ticket #: N/A		
Truck Type: End Dump		
UOM: CuYd		
UOM Count: 20		
PF Test Result: Pass		
H2S Test: Pass		
H2S Testing -- PASS		
01	00	01
Paint Filter -- PASS		
01	00	01
NORM -- PASS		
01	00	01
Additional Photos		
01	00	01

Customer: ConocoPhillips Company
Driver: Karen Work
ID/Licence:

Print name

Sign name



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: CHARLES BEAUVAIS
AFE #:
PO #:
Manifest #: 5
Manif. Date: 7/11/2022
Hauler: MCNABB PARTNERS
Driver: GUMER
Truck #: M31
Card #
Job Ref #

Ticket #: 700-1323829
Bid #: O6UJ9A000JEC
Date: 7/11/2022
Generator: CONOCOPHILLIPS
Generator #:
Well Ser. #: 42347L
Well Name: FEZ FEE
Well #: 11H
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

16.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Customer Copy

Northern Delaware Basin Landfill
2029 West NM Hwy 128
Jal NM 88252

---WASTE TICKET---

Ticket # 129560

Start: 07/11/2022 02:15 PM

End: 07/11/2022 02:24 PM

By: owl.angela

GROSS	TARE	NET
Contaminated Soil		
12	00	12
Hauler: McNabb Partners		
Driver: Gumar Rodriguez		
Lease: Faz Fee		
Well: 11H		
AFE #: N/A		
County, State: LEA (NM)		
API #: 3002542347		
Manifest #: N/A		
Client Company Man: Charles Beauvais		
Rig Name & Number: N/A		
Trucking Co Ticket #: N/A		
Truck Type: Dump Truck		
UOM: CuYd		
UOM Count: 12		
PF Test Result: Pass		
H2S Test: Pass		

H2S Testing - PASS		
01	00	01

Paint Filter - PASS		
01	00	01

NORM - PASS		
01	00	01

Additional Photos		
01	00	01

Customer: ConocoPhillips Company
Driver: Karen Work
ID/Licence:

Print name _____
Sign name _____



Customer Copy

Northern Delaware Basin Landfill
2029 West NM Hwy 128
Jal NM 88252

---WASTE TICKET---

Ticket # 129593

Start:07/11/2022 04:21 PM

End:07/11/2022 04:32 PM

By:owl.gina

GROSS	TARE	NET
Contaminated Soil		
18	00	18
Hauler: McNabb Partners		
Driver: Mike Bolton		
Lease: Faz Fee		
Well: 011H		
AFE #: N/A		
County, State: LEA (NM)		
API #: 3002542347		
Manifest #: 7		
Client Company Man: Charles Beauail		
Rig Name & Number: N/A		
Trucking Co Ticket #: N/A		
Truck Type: Dump Truck		
UOM: CuYd		
UOM Count: 18		
PF Test Result: Pass		
H2S Test: Pass		
H2S Testing - PASS		
01	00	01
Paint Filter - PASS		
01	00	01
NORM - PASS		
01	00	01
Additional Photos		
01	00	01

Customer: ConocoPhillips Company
Driver: Karen Work
ID/Licence:

Print name _____

Sign name _____



Customer Copy

Northern Delaware Basin Landfill
2029 West NM Hwy 128
Jal NM 88252

---WASTE TICKET---

Ticket # 129594

Start:07/11/2022 04:28 PM

End:07/11/2022 04:36 PM

By:owl.gina

GROSS	TARE	NET
Contaminated Soil		
18	00	18
Hauler: McNabb Partners		
Driver: Gumer Rodriguez		
Lease: Faz Fee		
Well: 011H		
AFE #: N/A		
County, State: LEA (NM)		
API #: 3002542347		
Manifest #: 8		
Client Company Man: Charles Beauvais		
Rig Name & Number: N/A		
Trucking Co Ticket #: N/A		
Truck Type: Dump Truck		
UOM: CuYd		
UOM Count: 18		
PF Test Result: Pass		
H2S Test: Pass		
H2S Testing - PASS		
01	00	01
Paint Filter - PASS		
01	00	01
NORM - PASS		
01	00	01
Additional Photos		
01	00	01

Customer: ConocoPhillips Company
Driver: Karen Work
ID/Licence:

Print name_____

Sign name_____



Customer Copy

Northern Delaware Basin Landfill
2029 West NM Hwy 128
Jal NM 88252

---WASTE TICKET---

Ticket # 129631

Start:07/11/2022 06:54 PM

End:07/11/2022 06:59 PM

By:owl.gina

GROSS	TARE	NET
Contaminated Soil		
18	00	18
Hauler: McNabb Driver: Mike Bolton Lease: Faz Fee Well: 011H AFE #: N/A County, State: LEA (NM) API #: 3002542347 Manifest #: 9 Client Company Man: Charles Beauvais Rig Name & Number: N/A Trucking Co Ticket #: N/A Truck Type: Dump Truck UOM: CuYd UOM Count: 18 PF Test Result: Pass H2S Test: Pass		
H2S Testing - PASS		
01	00	01
Paint Filter - PASS		
01	00	01
NORM - PASS		
01	00	01
Additional Photos		
01	00	01

Customer: ConocoPhillips Company

Driver: Karen Work

ID/Licence:

Print name

Sign name



Customer Copy

Northern Delaware Basin Landfill
2029 West NM Hwy 128
Jal NM 88252

---WASTE TICKET---

Ticket # 129628

Start: 07/11/2022 06:43 PM

End: 07/11/2022 06:48 PM

By: owl.jazmine

GROSS	TARE	NET
-------	------	-----

Contaminated Soil

18	00	18
----	----	----

Hauler: McNabb Partners

Driver: Gumer Rodriguez

Lease: Faz Fee

Well: 011H

AFE #: N/A

County, State: LEA (NM)

API #: 3002542347

Manifest #: 10

Client Company Man: Charles Baeuvais

Rig Name & Number: N/A

Trucking Co Ticket #: N/A

Truck Type: Dump Truck

UOM: Cuyd

UOM Count: 18

PF Test Result: Pass

H2S Test: Pass

H2S Testing - PASS

01	00	01
----	----	----

Paint Filter - PASS

01	00	01
----	----	----

NORM - PASS

01	00	01
----	----	----

Additional Photos

01	00	01
----	----	----

Customer: ConocoPhillips Company

Driver: Karen Work

ID/Licence:

Print name: _____

Sign name: _____

...

APPENDIX H

NMSLO Seed Mixture



United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for **Lea County, New Mexico**



July 15, 2022

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Contents

Preface..... 2

How Soil Surveys Are Made.....5

Soil Map..... 8

 Soil Map.....9

 Legend.....10

 Map Unit Legend..... 11

 Map Unit Descriptions.....11

 Lea County, New Mexico..... 13

 BE—Berino-Cacique loamy fine sands association..... 13

References..... 15

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

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scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

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identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.


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MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)


Soils


 Soil Map Unit Polygons


 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features

 Blowout

 Borrow Pit


 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot


 Sinkhole


 Slide or Slip


 Sodic Spot


 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

Water Features

 Streams and Canals


Transportation

 Rails


 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 18, Sep 10, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BE	Berino-Cacique loamy fine sands association	0.2	100.0%
Totals for Area of Interest		0.2	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Custom Soil Resource Report

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Custom Soil Resource Report

Lea County, New Mexico**BE—Berino-Cacique loamy fine sands association****Map Unit Setting**

National map unit symbol: dmpd
Elevation: 3,000 to 3,900 feet
Mean annual precipitation: 10 to 13 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 50 percent
Cacique and similar soils: 40 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino**Setting**

Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock over calcareous sandy alluvium derived from sedimentary rock

Typical profile

A - 0 to 6 inches: loamy fine sand
Btk - 6 to 60 inches: sandy clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7c
Hydrologic Soil Group: B
Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

Custom Soil Resource Report

Description of Cacique**Setting**

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 12 inches: loamy fine sand

Bt - 12 to 28 inches: sandy clay loam

Bkm - 28 to 38 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 20 to 40 inches to petrocalcic

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: C

Ecological site: R042XC004NM - Sandy

Hydric soil rating: No

Minor Components**Maljamar**

Percent of map unit: 6 percent

Ecological site: R077CY028TX - Limy Upland 16-21" PZ

Hydric soil rating: No

Palomas

Percent of map unit: 4 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

SLO Seed Mix

SM Series

1 REVEGETATION PLANS

The following Revegetation Plans were developed for revegetation of sites in southeastern New Mexico. To determine which revegetation plan is appropriate follow procedures in the section titled Determining the Revegetation Plan.

Revegetation Plans contain seed mixtures, as well as seed bed preparation and planting requirements. The detailed instructions for seedbed preparation and planting can be found in the section Revegetation Techniques.

Table 3 - Revegetation Plans, Codes, and Soil Types for Southeastern New Mexico

REVEGETATION PLANS	CODE	SOIL TEXTURES
Clay	C	Clay, Silty Clay, Stony Silty Clay, Clay Loam, Silty Clay Loam (including saline and sodic Clay soils)
Loam	L	Silty Loam, Cobbly Silt Loam, Stony Silt Loam, Silt, Loam, Sandy, Clay Loam
Sandy Loam	SL	Very Fine Sandy Loam, Fine Sandy Loam, Cobbly Fine Sandy Loam, Sandy Loam, Cobbly Sandy Loam, Gravelly Fine Sandy Loam, Very Gravelly Fine Sand Loam, Stony Fine Sandy Loam, Stony Sandy Loam
Shallow	SH	Rocky Loam, Cobbly Loam
Course	CS	Gravelly Loam, very Gravelly Loam, Gravelly Sandy Loam, Very Gravelly Sandy Loam, Stony Loam, Stony Sandy Loam
Sandy	S	Loamy Fine Sand, Loam Sand, Very Gravelly Loamy Fine Sand
Blow Sand	BS	Fine Sand, Sand, Coarse Sand
Mountain Meadow	MM	Clay, Loam
Mountain Upland	MU	Clay Loam, Loam



NMSLO Seed Mix**Sandy Loam (SL)****SANDY LOAM (SL) SITES SEED MIXTURE:**

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Galleta grass	Viva, VNS, So.	2.5	F
Little bluestem	Cimmaron, Pastura	2.5	F
Blue grama	Hachita, Lovington	2.0	D
Sideoats grama	Vaughn, El Reno	2.0	F
Sand dropseed	VNS, Southern	1.0	S
Forbs:			
Indian blanketflower	VNS, Southern	1.0	D
Parry penstemon	VNS, Southern	1.0	D
Blue flax	Appar	1.0	D
Desert globemallow	VNS, Southern	1.0	D
Shrubs:			
Fourwing saltbush	VNS, Southern	2.0	D
Common winterfat	VNS, Southern	1.0	F
Apache plume	VNS, Southern	0.75	F
Total PLS/acre		17.75	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

- VNS, Southern – No Variety Stated, seed should be from a southern latitude collection of this species.
- Double above seed rates for broadcast or hydroseeding.
- If Parry penstemon is not available, substitute firecracker penstemon.
- If desert globemallow is not available, substitute scarlet globemallow or Nelson globemallow.
- If a species is not available, provide a suggested substitute to the New Mexico Land Office for approval. Increasing all other species proportionately may be acceptable.



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

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

CONDITIONS

Action 129846

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 129846
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	8/2/2022