



Environmental Site Remediation Work Plan

General Information

NMOCD District:	District 1 – Hobbs	Incident ID:	nAPP2523053945
Landowner:	New Mexico State Land Office	Facility:	fAPP2307349314
Client:	Jonah Energy, LLC	Site Location:	Jackson Unit #20-28 Disposal Line
Date:	November 21, 2025	Project #:	25A-04596
Client Contact:	Leigh Ann Kollath	Phone #:	970.222.6263
Vertex PM:	Chance Dixon	Phone #:	575.988.1472

Objective

The objective of the environmental remediation work plan is to identify exceedances found during the site assessment/characterization activity and propose an appropriate remediation technique to address the release at Jackson Unit #20-28 Disposal Line (hereafter referred to as “site”). The release occurred when pipeline failed resulting in 83 barrels (bbl) of produced water being released into the pasture south of the lease road (Attachment 1). The release occurred along a pipeline right of way and flowed south further into the pasture. Areas of environmental concern identified and delineated include the pasture and right-of-way.

On March 27, 2023, an exploratory borehole was drilled within 0.16 miles of the site to determine and support New Mexico Oil Conservation Division (NMOCD) closure criteria. The exploratory borehole was dry at the termination depth of 100 feet. Closure criteria have been selected as per New Mexico Administrative Code 19.15.29. The closure criteria for the site are presented below.

Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit
0-4 feet bgs (19.15.29.13)	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
DTGW > 100 feet (19.15.29.12)	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

TDS – Total dissolved solids
 bgs – Below ground surface
 DTGW – Depth to groundwater
 TPH – Total petroleum hydrocarbons = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO)
 BTEX – Benzene, toluene, ethylbenzene, and xylenes

Site Assessment/Characterization

Site characterization started on October 13, 2025, and completed on October 30, 2025. An area inside the release area was identified that may not have been impacted by the release and is marked as “Potentially Unimpacted” on Figure 1 (Attachment 1). A total of 25 sample points (boreholes and test pits) were established (two of which share the same location), and 67 samples were collected for field screening. Samples were obtained at various depths for horizontal and vertical delineation, and samples at the greatest lateral limits and the deepest vertical distance below criteria were submitted to the laboratory for analysis. In total, 49 samples were submitted to Envirotech Inc. in Farmington, New Mexico, for analysis. The sample locations are presented on Figure 1 (Attachment 1). Laboratory analysis results have been compared to the above noted closure criteria and the results from the characterization activity are presented in Table 2 (Attachment 2); exceedances to criteria are identified in the table as bold with green or gray background. Daily Field Reports



Environmental Site Remediation Work Plan

and Laboratory data reports are included in Attachment 3 and Attachment 4, respectively. All applicable research as it pertains to closure criteria selection is presented in Attachment 5.

Proposed Remedial Activities

Areas identified with contaminant concentrations above closure criteria will be remediated through excavation. Laboratory results from the site assessment/characterization have been referenced to estimate both the vertical and horizontal limits of the impacts and the volume of soil to be removed. Soil will be excavated to four feet bgs and advanced deeper if sample analysis determines that the impact exceeds the limits displayed in Table 1. Field screening, including an EC meter/titration for chlorides and a PetroFlag analyzer for heavy hydrocarbons, will be utilized to confirm removal of contaminated soil below the applicable closure criteria. Impacted soil will be stored on a 30 mil liner prior to disposal at an approved facility.

An area inside the release area was identified that may not have been impacted by the release and is marked as "Potentially Unimpacted" on Figure 1 (Attachment 1). This area will remain in place until field screening and/or laboratory results of the surrounding excavation sidewalls determine whether reclamation closure criteria are met.

The west side of the release area crossed a buried pipeline running east-west operated by Enlink and will require removal of all material around the pipeline to 4 feet bgs as shown on Figure 2 (Attachment 1). The east "arm" of the release was immediately north of and adjacent to the buried pipeline running east-west operated by Enlink. The initial excavation of the east portion of the right-of-way will initially terminate exactly 4 feet from the north edge of the Enlink pipeline to meet their mechanical excavation safety protocol. Field screening and/or laboratory results of the resulting excavation sidewall will determine whether reclamation closure criteria are met or additional hydrovac and excavation in proximity to the pipeline is necessary.

Heavy equipment will be used to complete excavation in areas free of infrastructure or equipment. A hydrovac truck may be utilized to identify utility and buried pipelines where necessary, and hand tools will be utilized to remove contaminated soil in close proximity to equipment, buried utilities, and pipelines. Confirmation samples will be collected as per NMOCD guidance and submitted for laboratory analysis of all applicable parameters. Surfaces of the final extents of the excavation will meet NMOCD reclamation closure criteria. The remediation area is approximately 38,218 square feet presented on Figure 2 (Attachment 1). The total estimated volume to be excavated is approximately **6,795 cubic yards**. Excavation is planned to be completed within 90 days of approval of this Environmental Site Remediation Work Plan.

Once excavation is complete, confirmatory samples will be collected and laboratory analysis completed to confirm closure criteria guidelines are met. Excavations will be backfilled with clean soil sourced locally. Sampling of backfill material will be conducted prior to material being placed within excavation. The site will then be contoured to match the natural surrounding contour, ripped and seeded with an appropriate NMSLO loamy Seed Mix.

Monitoring Program

Tri-annual inspections will be conducted, during the growing season, to monitor site progression and assess the need for any additional best management practices (BMPs). Inspections will include photographs of the site and BMPs implemented.

Final Assessment and Revegetation Report

During the tri-annual inspections, if site conditions are at or nearing background conditions, a final report will be completed. The report will provide a summary of reclamation work performed, a summary and interpretation of monitoring data collected, and interpretation of historical monitoring data, if applicable.

Environmental Site Remediation Work Plan**Variance Request**

The initial proposed excavation base and wall areas will be approximately 38,218 and 10,710 square feet, respectively. In addition, the remediation will follow NMOCD closure criteria for areas where depth to groundwater is greater than 100 feet bgs as shown in Table 1. Closure criteria research pertaining to the depth to groundwater determination is included in Attachment 5. Vertex Resource Services, Inc. and Jonah Energy, L.L.C. would like to request a variance for confirmation sampling due to the large area of the excavation base. This variance request will consist of five-point composite samples for every 400 square feet of excavation base. Excavation wall samples will utilize five-point composite samples representative of no more than 400 square feet. Additional discrete grab samples will be collected from areas with discoloration and analyzed for chloride (EPA 300.0), benzene, toluene, ethylbenzene, and xylenes (EPA 8021B), and total petroleum hydrocarbons (EPA 8015D) depending on field screening results. The walls around the perimeter of the excavation will utilize five-point composite samples representative of no more than 200 square feet.

Right of Entry

The site lies within EOG Resources Inc lease boundaries VB17430001 and VB06470001. The release penetrated an area off pad that was not pre-disturbed prior. Because of this, a right-of-entry (ROE) permit was requested. The ROE permit, contact number RE-7748 and a map depicting the location and lease boundary of the site is located in Attachment 6.

Cultural Properties Protection

The release penetrated an area off pad that was not pre-disturbed prior. Jonah retained a third-party contractor to complete an ARMS Inspection/Review under of the disturbed area under New Mexico State Land Office (NMSLO) regulations and it was determined that no cultural properties were found within the survey area. The NMSLO Cultural Resources Cover Sheet is included in Attachment 6.

Biological Compliance

Vertex conducted desktop review to determine if any potential habitats are located within the scope of work. A Biological Checklist utilizing the sources provided by NMSLO for guidance is located in Attachment 6. It was determined that three potentially endangered species and five migratory bird species could potentially be impacted, but no confirmed presences of them are located in the remediation area. If any of the species identified in the IPac Resource List (Attachment 6) are encountered during remedial activities, work will be ceased and a biological representative from NMSLO will be notified for further instruction.

Proposed Schedule

- November 2025 – Revised Reclamation Plan approved by SLO-ECO.
- December 2025 – Implement the selected remedial/reclamation action.
- January 2025 – Backfilling and Reseeding.
- February 2026 – Completion and Closure Report
- May 2027—Final Revegetation Report

Should you have any questions or concerns, please do not hesitate to contact Chance Dixon at 575.988.1472 or cdixon@vertexresource.com.

Environmental Site Remediation Work Plan

Stephanie McCarty

Stephanie McCarty, B.Sc.

ENVIRONMENTAL SPECIALIST, REPORTING

November 21, 2025

Date

Chance Dixon, B.Sc.

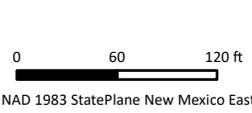
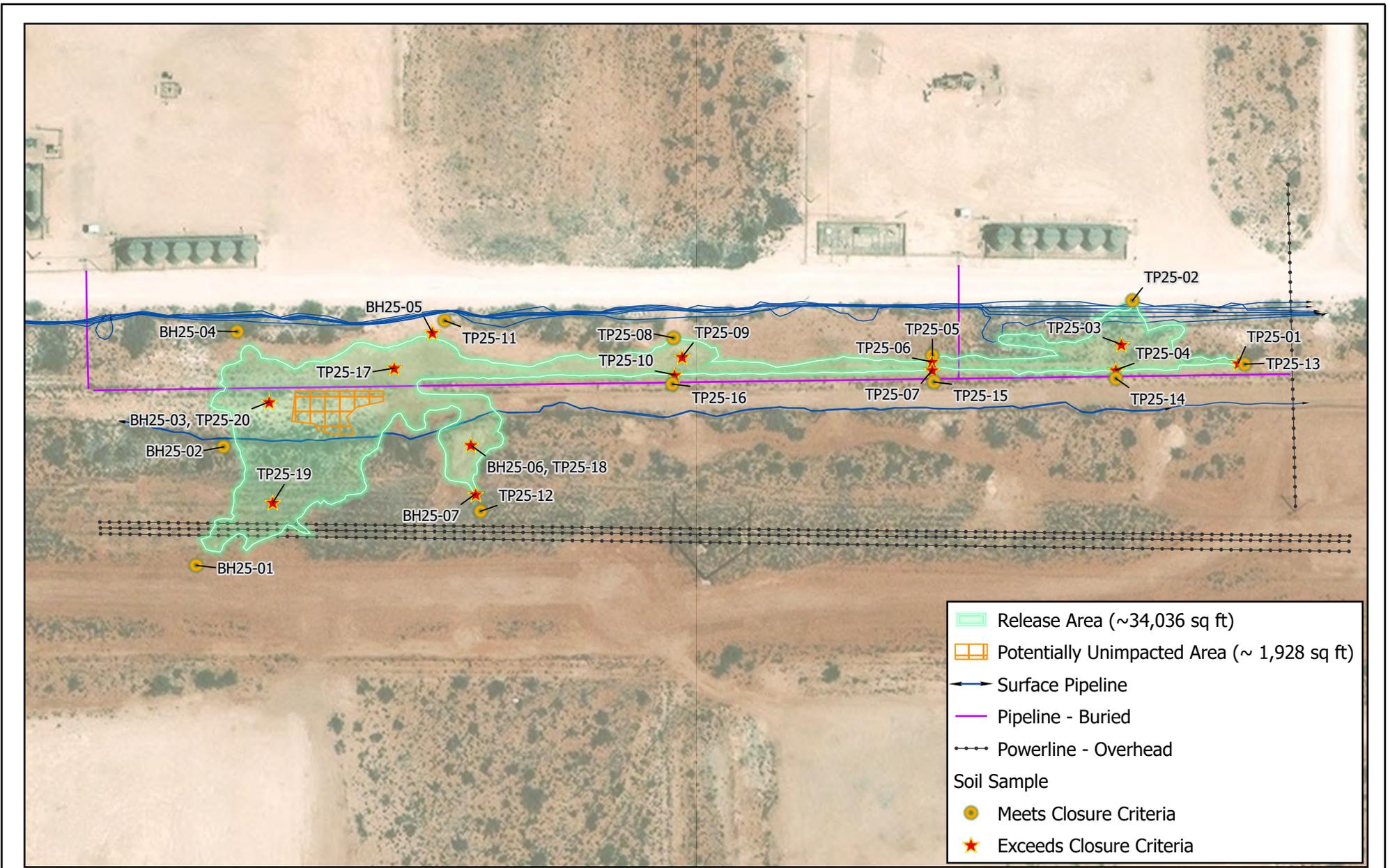
PROJECT MANAGER, REPORT REVIEW

Date

Attachments

- Attachment 1. Figures
- Attachment 2. Tables
- Attachment 3. Daily Field Reports with Photographs
- Attachment 4. Laboratory Data Reports and Chain of Custody Forms
- Attachment 5. Closure Criteria Research
- Attachment 6. NMSLO Research Including ROE, CPP, and Biological Compliance

ATTACHMENT 1



Map Center:
 Lat/Long: 32.195578°N, 103.576932°W
 Date: Nov 01/25



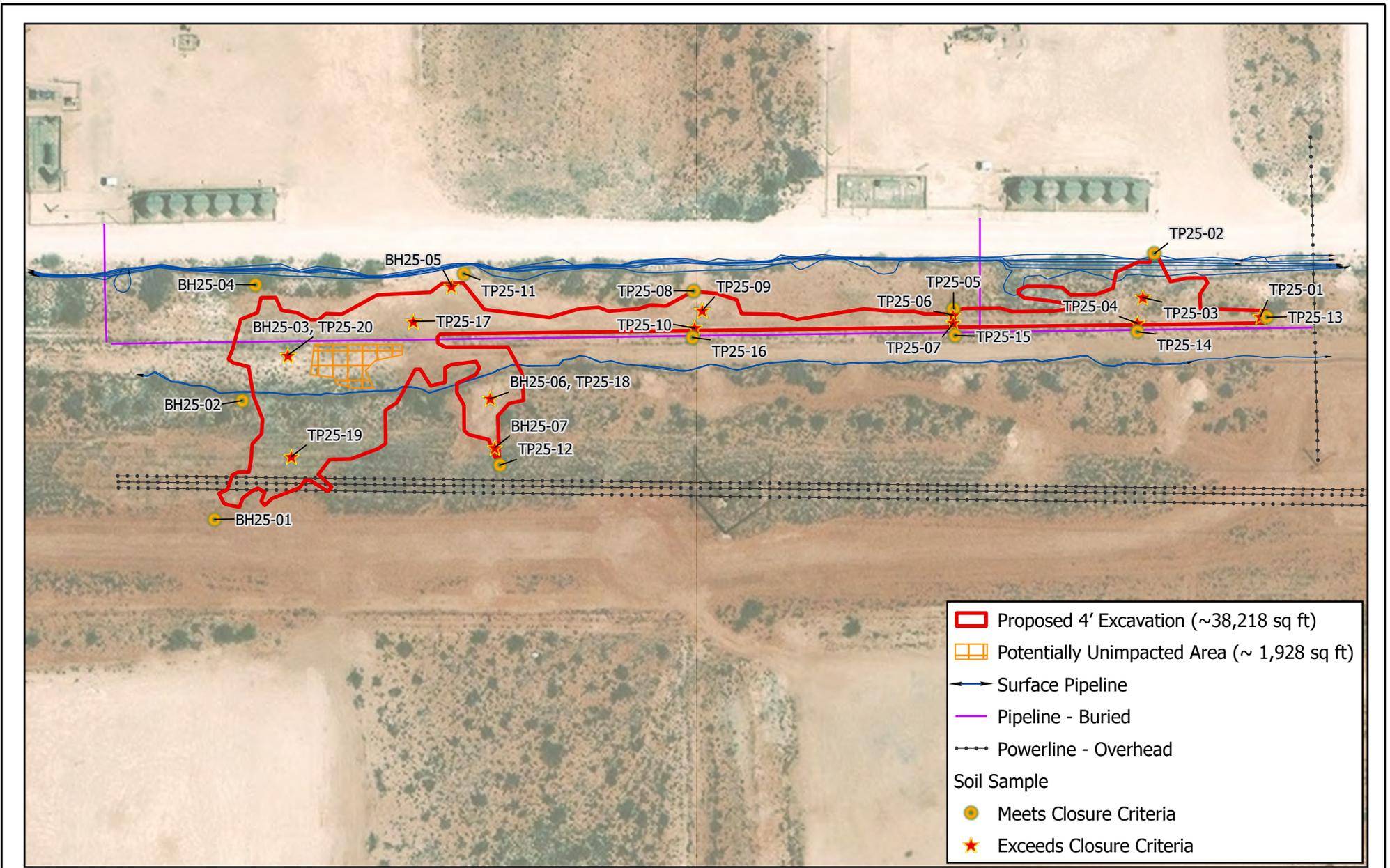
**Characterization Sampling Site Schematic
 Jackson Unit #20-28 Disposal Line**

FIGURE:
1



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.



VERTEX

Map Center:
Lat/Long: 32.195469°N, 103.576988°W
Date: Nov 01/25

0 60 120 ft
NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

N

**Proposed Excavation Schematic
Jackson Unit #20-28 Disposal Line**

FIGURE: **2**

JONAH ENERGY LLC

Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

ATTACHMENT 2

Client Name: Jonah Energy, LLC
 Site Name: Jackson Unit #20-28 Disposal Line
 NMOCD Tracking #: nAPP2523053945
 Project #: 25A-04596
 Lab Reports: E510294, E510344, E510367, E510382, and E510395

Table 2. Initial Characterization Sample Laboratory Results

Sample Description		Field Screening			Petroleum Hydrocarbons							Inorganic	
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration (ppm)	Volatile		Extractable					Chloride Concentration (mg/kg)
						Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	
Depth to Groundwater > 100 feet bgs													
BH25-01	0	October 15, 2025	-	21	ND	ND	ND	ND	ND	ND	ND	ND	105
	2	October 15, 2025	-	22	ND	ND	ND	ND	ND	ND	ND	ND	211
BH25-02	0	October 15, 2025	-	26	ND	ND	ND	ND	ND	ND	ND	ND	102
	2	October 15, 2025	-	16	ND	ND	ND	ND	ND	ND	ND	ND	80.3
BH25-03	0	October 14, 2025	-	-	1,997	-	-	-	-	-	-	-	-
	2	October 14, 2025	-	-	3,436	-	-	-	-	-	-	-	-
	2.5	October 14, 2025	-	-	2,618	-	-	-	-	-	-	-	-
BH25-04	0	October 15, 2025	-	28	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 15, 2025	-	4	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3.5	October 15, 2025	-	17	ND	ND	ND	ND	ND	ND	ND	ND	74.5
BH25-05	0	October 14, 2025	-	-	ND	-	-	-	-	-	-	-	-
	2	October 14, 2025	-	-	2,265	-	-	-	-	-	-	-	-
BH25-06	0	October 14, 2025	-	-	8,294	-	-	-	-	-	-	-	-
	2	October 14, 2025	-	-	1,591	-	-	-	-	-	-	-	-
BH25-07	0	October 14, 2025	-	-	606	-	-	-	-	-	-	-	-
	2	October 14, 2025	-	-	1,573	-	-	-	-	-	-	-	-
	3	October 14, 2025	-	-	6,773	-	-	-	-	-	-	-	-
TP25-01	0	October 27, 2025	-	-	1,402	-	-	-	-	-	-	-	-
	2	October 27, 2025	-	-	2,304	-	-	-	-	-	-	-	-
TP25-02	0	October 27, 2025	-	22	575	ND	ND	ND	ND	ND	ND	ND	219
	2	October 27, 2025	-	33	325	ND	ND	ND	ND	ND	ND	ND	177
TP25-03	0	October 27, 2025	-	-	8,070	ND	ND	ND	300	292	300	592	5,210
	2	October 27, 2025	-	-	8,994	ND	ND	ND	ND	ND	ND	ND	6,790
	4	October 27, 2025	-	-	14,431	ND	ND	ND	ND	ND	ND	ND	12,200
TP25-04	0	October 27, 2025	-	-	2,755	-	-	-	-	-	-	-	-
	2	October 27, 2025	-	-	6,108	-	-	-	-	-	-	-	-
TP25-05	0	October 28, 2025	-	29	113	ND	ND	ND	ND	66	ND	66	ND
	2	October 28, 2025	-	17	141	ND	ND	ND	ND	ND	ND	ND	36.5
TP25-06	0	October 28, 2025	-	-	7,518	ND	ND	ND	5,510	4,490	5,510	10,000	6,710
	2	October 28, 2025	-	-	4,272	ND	ND	ND	41	94.8	41	135.8	3,830
	4	October 28, 2025	-	-	9,411	ND	ND	ND	ND	ND	ND	ND	13,200
TP25-07	0	October 28, 2025	-	-	8,177	-	-	-	-	-	-	-	-
	2	October 28, 2025	-	-	7,679	-	-	-	-	-	-	-	-
TP25-08	0	October 28, 2025	-	7	79	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 28, 2025	-	7	76	ND	ND	ND	ND	ND	ND	ND	ND
TP25-09	0	October 28, 2025	-	-	5,944	ND	ND	ND	ND	ND	ND	ND	4,770
	2	October 28, 2025	-	-	7,616	ND	ND	ND	ND	ND	ND	ND	7,060
	4	October 28, 2025	-	-	971	ND	ND	ND	ND	ND	ND	ND	852
TP25-10	0	October 28, 2025	-	-	6,245	-	-	-	-	-	-	-	-
	2	October 28, 2025	-	-	6,184	-	-	-	-	-	-	-	-
TP25-11	0	October 28, 2025	-	20	321	ND	ND	ND	ND	ND	ND	ND	77.8
	2	October 28, 2025	-	28	95	ND	ND	ND	ND	ND	ND	ND	ND
TP25-12	0	October 28, 2025	-	11	25	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 28, 2025	-	9	28	ND	ND	ND	ND	ND	ND	ND	ND
TP25-13	0	October 28, 2025	-	21	220	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 28, 2025	-	10	238	ND	ND	ND	ND	ND	ND	ND	31.4
TP25-14	0	October 28, 2025	-	32	291	ND	ND	ND	ND	ND	ND	ND	101
	2	October 28, 2025	-	25	228	ND	ND	ND	ND	ND	ND	ND	27.4
	4	October 28, 2025	-	10	189	ND	ND	ND	ND	ND	ND	ND	33.9
TP25-15	0	October 29, 2025	-	38	38	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 29, 2025	-	18	101	ND	ND	ND	ND	ND	ND	ND	33.9
	4	October 29, 2025	-	13	204	ND	ND	ND	ND	ND	ND	ND	57.7
TP25-16	0	October 29, 2025	-	23	82	ND	ND	ND	ND	ND	ND	ND	ND
	2	October 29, 2025	-	9	124	ND	ND	ND	ND	ND	ND	ND	ND
	4	October 29, 2025	-	23	368	ND	ND	ND	ND	ND	ND	ND	103



Client Name: Jonah Energy, LLC
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						Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)		Total Petroleum Hydrocarbons (TPH) (mg/kg)
Depth to Groundwater > 100 feet bgs													
TP25-17	0	October 29, 2025	-	-	1,218	ND	ND	ND	ND	ND	ND	ND	939
	2	October 29, 2025	-	-	14,200	ND	ND	ND	ND	ND	ND	ND	14,100
	4	October 30, 2025	-	-	7,317	ND	ND	ND	ND	ND	ND	ND	7,730
TP25-18	0	October 29, 2025	-	-	8,977	ND	ND	ND	ND	ND	ND	ND	8,670
	2	October 29, 2025	-	-	9,309	ND	ND	ND	ND	ND	ND	ND	9,030
	4	October 29, 2025	-	-	7,673	ND	ND	ND	ND	ND	ND	ND	7,260
TP25-19	0	October 29, 2025	-	-	2,329	ND	ND	ND	ND	ND	ND	ND	1,760
	2	October 29, 2025	-	-	5,348	ND	ND	ND	ND	ND	ND	ND	4,340
	4	October 29, 2025	-	-	3,753	ND	ND	ND	ND	ND	ND	ND	3,510
TP25-20	0	October 29, 2025	-	-	6,753	ND	ND	ND	ND	ND	ND	ND	7,200
	2	October 29, 2025	-	-	7,216	ND	ND	ND	ND	ND	ND	ND	5,900
	4	October 29, 2025	-	-	3,267	ND	ND	ND	ND	ND	ND	ND	3,170

"ND" Not Detected at the Reporting Limit
 "-" indicates not analyzed/assessed

Bold and green shaded indicates exceedance outside of NMOCD Reclamation Closure Criteria



ATTACHMENT 3



Daily Site Visit Report

Site Photos

Viewing Direction: Southwest



Descriptive Photo - 1
Viewing Direction: Southwest
Date: South of lease road facing southwest. Advanced TP25-08 immediately north of release area.
Created: 10/29/2025 10:25:45 AM
Lat: 33.182604, Long: -103.572673

South of lease road facing southwest.
Advanced TP25-08 immediately north of release area.

Viewing Direction: North



Descriptive Photo - 2
Viewing Direction: North
Date: Between lease road and Enlink pipeline facing north. Advanced TP25-08 immediately north of release area.
Created: 10/29/2025 10:25:45 AM
Lat: 33.182724, Long: -103.572673

Between lease road and Enlink pipeline facing north. Advanced TP25-08 immediately north of release area.

Viewing Direction: Southeast



Descriptive Photo - 3
Viewing Direction: Southeast
Date: South edge of lease road facing southeast. Advanced TP25-11 north of release area.
Created: 10/29/2025 9:25:45 AM
Lat: 33.182604, Long: -103.572673

South edge of lease road facing southeast.
Advanced TP25-11 north of release area.

Viewing Direction: North



Descriptive Photo - 4
Viewing Direction: North
Date: Over Enlink pipeline facing north. Advanced TP25-10 north of Enlink pipeline.
Created: 10/29/2025 9:25:45 AM
Lat: 33.182724, Long: -103.572673

Over Enlink pipeline facing north. Advanced TP25-10 north of Enlink pipeline.



Daily Site Visit Report

Viewing Direction: South

Descriptive Photo - 1
Viewing Direction: South
Date: Between Enlink pipeline and lease road facing south. Advanced TP25-09 between Enlink pipeline and lease road.
Created: 10/29/2025 2:20:11 PM
Lat:33.185772, Long:-103.077054

Between Enlink pipeline and lease road facing south. Advanced TP25-09 between Enlink pipeline and lease road.

Viewing Direction: South

Descriptive Photo - 2
Viewing Direction: South
Date: Between Enlink pipeline and lease road facing south. Advanced TP25-05, TP25-06, and TP25-07 between Enlink pipeline and lease road.
Created: 10/29/2025 2:23:43 PM
Lat:33.185772, Long:-103.077054

Between Enlink pipeline and lease road facing south. Advanced TP25-05, TP25-06, and TP25-07 between Enlink pipeline and lease road.

Viewing Direction: North

Descriptive Photo - 3
Viewing Direction: North
Date: Overhead power lines facing north. Advanced TP25-05, TP25-06, and TP25-07 between Enlink pipeline and lease road.
Created: 10/29/2025 2:24:11 PM
Lat:33.185772, Long:-103.077054

Over Enlink pipeline facing north. Advanced TP25-05, TP25-06, and TP25-07 between Enlink pipeline and lease road.

Viewing Direction: East

Descriptive Photo - 4
Viewing Direction: East
Date: North of overhead power lines facing east. Advanced TP25-12 southeast of BH25-07.
Created: 10/29/2025 2:26:12 PM
Lat:33.185772, Long:-103.077054

North of overhead power lines facing east. Advanced TP25-12 southeast of BH25-07.



Daily Site Visit Report

Viewing Direction: North

Descriptive Photo - 14
Viewing Direction: North
Desc: North edge of overhead power lines facing north. Advanced TP25-12 southeast of BH25-07.
Created: 10/28/2025 3:30:04 PM
Lat:32.195744 Long: -103.077276

North edge of overhead power lines facing north. Advanced TP25-12 southeast of BH25-07.

Viewing Direction: North

Descriptive Photo - 14
Viewing Direction: North
Desc: Over Enlink pipeline facing north. Hydrovac started trench west of release area.
Created: 10/28/2025 3:31:26 PM
Lat:32.195744 Long: -103.076476

Over Enlink pipeline facing north. Hydrovac started trench west of release area.

Viewing Direction: East

Descriptive Photo - 14
Viewing Direction: East
Desc: Over Enlink pipeline facing east. Hydrovac continued trench over Enlink pipeline.
Created: 10/28/2025 3:32:04 PM
Lat:32.195744 Long: -103.077276

Over Enlink pipeline facing east. Hydrovac continued trench over Enlink pipeline.

Viewing Direction: West

Descriptive Photo - 14
Viewing Direction: West
Desc: Over Enlink pipeline facing west. Hydrovac continued potholes along Enlink pipeline.
Created: 10/28/2025 3:32:22 PM
Lat:32.195744 Long: -103.076276

Over Enlink pipeline facing west. Hydrovac continued potholes along Enlink pipeline.



Daily Site Visit Report

Viewing Direction: North



Descriptive Photo - 13
Viewing Direction: North
Over Enlink pipeline facing north. Hydrovac completed trench across release area.
Created: 10/28/2025 4:29:30 PM
Latitude: 32.75173, Longitude: 101.57173

Over Enlink pipeline facing north. Hydrovac completed trench across release area.

Viewing Direction: West



Descriptive Photo - 14
Viewing Direction: West
North of Enlink pipeline facing west. Collected TP25-13 from trench east of TP25-01.
Created: 10/28/2025 4:30:42 PM
Latitude: 32.75173, Longitude: 101.57200

North of Enlink pipeline facing west. Collected TP25-13 from trench east of TP25-01.

Viewing Direction: North



Descriptive Photo - 14
Viewing Direction: North
South Enlink pipeline facing north. Collected TP25-14 from pothole south of TP25-04.
Created: 10/28/2025 4:03:27 PM
Latitude: 32.75173, Longitude: 101.57173

South Enlink pipeline facing north. Collected TP25-14 from pothole south of TP25-04.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:

A handwritten signature in black ink, appearing to be 'LP', written over a horizontal line.

Signature



Daily Site Visit Report

Site Photos

Viewing Direction: Southwest



Descriptive Photo - 3
Viewing Direction: Southwest
Depth: South of Enlink pipeline facing southwest. Advanced TP25-18 at BH25-06.
Created: 10/29/2025 12:01:33 PM
Lat: 32.186508, Long: -103.577821

South of Enlink pipeline facing southwest.
Advanced TP25-18 at BH25-06.

Viewing Direction: Northeast



Descriptive Photo - 3
Viewing Direction: Northeast
Depth: South of Enlink pipeline facing northeast. Advanced TP25-19 below north edge of power lines.
Created: 10/29/2025 12:10:43 PM
Lat: 32.186507, Long: -103.578141

South of Enlink pipeline facing northeast.
Advanced TP25-19 below north edge of power lines.

Viewing Direction: North



Descriptive Photo - 4
Viewing Direction: North
Depth: South of Enlink pipeline facing west. Advanced TP25-20 at BH25-03.
Created: 10/29/2025 12:36:40 PM
Lat: 32.186508, Long: -103.577821

South of Enlink pipeline facing west. Advanced
TP25-20 at BH25-03.

Viewing Direction: East



Descriptive Photo - 4
Viewing Direction: East
Depth: North of Enlink pipeline facing east. Advanced TP25-17 to refusal.
Created: 10/29/2025 12:13:44 PM
Lat: 32.186505, Long: -103.577821

North of Enlink pipeline facing east. Advanced
TP25-17 to refusal.



Daily Site Visit Report

Viewing Direction: Northwest



Description Photo
Viewing Direction: Northwest
Desc: South of Enlink pipeline facing northwest. Collected TP25-15 from hydrovac
Created: 10/29/2025 3:48:15 PM
Lat: 32.195756 Long: 103.678093

South of Enlink pipeline facing northwest. Collected TP25-15 from hydrovac south of TP25-07.

Viewing Direction: Northwest



Description Photo
Viewing Direction: Northwest
Desc: South of Enlink pipeline facing northwest. Collected TP25-16 from hydrovac
Created: 10/29/2025 3:48:15 PM
Lat: 32.195756 Long: 103.678093

South of Enlink pipeline facing northwest. Collected TP25-16 from hydrovac south of TP25-10.

Viewing Direction: North



Description Photo
Viewing Direction: North
Desc: Over Enlink pipeline facing east. Hydrovac crew continued trenching Enlink pipeline on west side of release area.
Created: 10/29/2025 3:58:15 PM
Lat: 32.195756 Long: 103.678093

Over Enlink pipeline facing east. Hydrovac crew continued trenching Enlink pipeline on west side of release area.

Viewing Direction: South



Description Photo
Viewing Direction: South
Desc: North of Enlink pipeline facing south. Hydrovac crew spotted Enlink pipeline before advancing TP25-20.
Created: 10/29/2025 3:58:15 PM
Lat: 32.195756 Long: 103.678093

North of Enlink pipeline facing south. Hydrovac crew spotted Enlink pipeline before advancing TP25-20.



Daily Site Visit Report

Viewing Direction: North



Description Photo - 14
Viewing Direction: North
Desc: South of Enlink pipeline facing north. Hydrovac crew completed trench west of release area.
Created: 10/29/2025 4:15:44 PM
Latitude: 33.8629 Longitude: -103.8749

South of Enlink pipeline facing north. Hydrovac crew completed trench west of release area.

Viewing Direction: North



Description Photo - 15
Viewing Direction: North
Desc: North edge of overhead power lines facing north. Hydrovac crew completed trench west of release area.
Created: 10/29/2025 4:16:21 PM
Latitude: 33.8629 Longitude: -103.8749

North edge of overhead power lines facing north. Hydrovac crew completed trench west of release area.

Viewing Direction: North



Description Photo - 16
Viewing Direction: North
Desc: Over Enlink pipeline facing north. Hydrovac crew completed trench west of release area.
Created: 10/29/2025 4:16:58 PM
Latitude: 33.8629 Longitude: -103.8749

Over Enlink pipeline facing north. Hydrovac crew completed trench west of release area.

Viewing Direction: South



Description Photo - 17
Viewing Direction: South
Desc: Between lease road and Enlink pipeline facing south. Hydrovac crew completed trench west of release area.
Created: 10/29/2025 4:17:35 PM
Latitude: 33.8629 Longitude: -103.8749

Between lease road and Enlink pipeline facing south. Hydrovac crew completed trench west of release area.



Daily Site Visit Report

Viewing Direction: North



Disposal Photo
2/26/2025 10:00 AM
View: South of lease road and Enlink pipeline facing north. Hydrovac crew completed trench at west end of release area.
Created: 10/29/2025 4:05:04 PM
Lat: 34.7736, Long: 104.7736

Between lease road and Enlink pipeline facing north. Hydrovac crew completed trench at west end of release area.

Viewing Direction: South



Disposal Photo
2/26/2025 10:00 AM
View: South of lease road facing south. Hydrovac crew completed trench at west end of release area.
Created: 10/29/2025 4:05:04 PM
Lat: 34.7736, Long: 104.7736

South of lease road facing south. Hydrovac crew completed trench at west end of release area.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:

A handwritten signature in black ink, appearing to be 'LP', written over a horizontal line.

Signature

ATTACHMENT 4

Report to:
Chance Dixon



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Vertex Resource Services Inc.

Project Name: Jackson Unit #20

Work Order: E510294

Job Number: 25013-0001

Received: 10/24/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/27/25

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 10/27/25



Chance Dixon
3101 Boyd Drive
Carlsbad, NM 88220

Project Name: Jackson Unit #20
Workorder: E510294
Date Received: 10/24/2025 8:30:00AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/24/2025 8:30:00AM, under the Project Name: Jackson Unit #20.

The analytical test results summarized in this report with the Project Name: Jackson Unit #20 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

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Sample Summary

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #20 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 10/27/25 14:59
--	---	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH25-01 0'	E510294-01A	Soil	10/15/25	10/24/25	Glass Jar, 2 oz.
BH25-01 2'	E510294-02A	Soil	10/15/25	10/24/25	Glass Jar, 2 oz.
BH25-02 0'	E510294-03A	Soil	10/15/25	10/24/25	Glass Jar, 2 oz.
BH25-02 2'	E510294-04A	Soil	10/15/25	10/24/25	Glass Jar, 2 oz.
BH25-04 0'	E510294-05A	Soil	10/15/25	10/24/25	Glass Jar, 2 oz.
BH25-04 2'	E510294-06A	Soil	10/15/25	10/24/25	Glass Jar, 2 oz.
BH25-04 3.5'	E510294-07A	Soil	10/15/25	10/24/25	Glass Jar, 2 oz.



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #20 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 10/27/2025 2:59:41PM
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BH25-01 0'

E510294-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2543113
Benzene	ND	0.0250	1	10/24/25	10/24/25	
Ethylbenzene	ND	0.0250	1	10/24/25	10/24/25	
Toluene	ND	0.0250	1	10/24/25	10/24/25	
o-Xylene	ND	0.0250	1	10/24/25	10/24/25	
p,m-Xylene	ND	0.0500	1	10/24/25	10/24/25	
Total Xylenes	ND	0.0250	1	10/24/25	10/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		93.5 %	70-130	10/24/25	10/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2543113
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/25	10/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.6 %	70-130	10/24/25	10/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2543107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/25	10/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/25	10/24/25	
<i>Surrogate: n-Nonane</i>						
		90.1 %	61-141	10/24/25	10/24/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2543139
Chloride	105	20.0	1	10/24/25	10/24/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #20 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 10/27/2025 2:59:41PM
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BH25-01 2'

E510294-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2543113
Benzene	ND	0.0250	1	10/24/25	10/24/25	
Ethylbenzene	ND	0.0250	1	10/24/25	10/24/25	
Toluene	ND	0.0250	1	10/24/25	10/24/25	
o-Xylene	ND	0.0250	1	10/24/25	10/24/25	
p,m-Xylene	ND	0.0500	1	10/24/25	10/24/25	
Total Xylenes	ND	0.0250	1	10/24/25	10/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		90.9 %	70-130	10/24/25	10/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2543113
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/25	10/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.1 %	70-130	10/24/25	10/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2543107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/25	10/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/25	10/24/25	
<i>Surrogate: n-Nonane</i>						
		90.9 %	61-141	10/24/25	10/24/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2543139
Chloride	211	20.0	1	10/24/25	10/24/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #20 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 10/27/2025 2:59:41PM
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BH25-02 0'

E510294-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2543113
Benzene	ND	0.0250	1	10/24/25	10/24/25	
Ethylbenzene	ND	0.0250	1	10/24/25	10/24/25	
Toluene	ND	0.0250	1	10/24/25	10/24/25	
o-Xylene	ND	0.0250	1	10/24/25	10/24/25	
p,m-Xylene	ND	0.0500	1	10/24/25	10/24/25	
Total Xylenes	ND	0.0250	1	10/24/25	10/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.6 %	70-130	10/24/25	10/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2543113
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/25	10/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.2 %	70-130	10/24/25	10/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2543107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/25	10/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/25	10/24/25	
<i>Surrogate: n-Nonane</i>		90.6 %	61-141	10/24/25	10/24/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2543139
Chloride	102	20.0	1	10/24/25	10/24/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #20 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 10/27/2025 2:59:41PM
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BH25-02 2'

E510294-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2543113
Benzene	ND	0.0250	1	10/24/25	10/25/25	
Ethylbenzene	ND	0.0250	1	10/24/25	10/25/25	
Toluene	ND	0.0250	1	10/24/25	10/25/25	
o-Xylene	ND	0.0250	1	10/24/25	10/25/25	
p,m-Xylene	ND	0.0500	1	10/24/25	10/25/25	
Total Xylenes	ND	0.0250	1	10/24/25	10/25/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		92.6 %	70-130	10/24/25	10/25/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2543113
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/25	10/25/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.8 %	70-130	10/24/25	10/25/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2543107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/25	10/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/25	10/24/25	
<i>Surrogate: n-Nonane</i>						
		88.4 %	61-141	10/24/25	10/24/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2543139
Chloride	80.3	20.0	1	10/24/25	10/24/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #20 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 10/27/2025 2:59:41PM
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BH25-04 0'

E510294-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2543113
Benzene	ND	0.0250	1	10/24/25	10/25/25	
Ethylbenzene	ND	0.0250	1	10/24/25	10/25/25	
Toluene	ND	0.0250	1	10/24/25	10/25/25	
o-Xylene	ND	0.0250	1	10/24/25	10/25/25	
p,m-Xylene	ND	0.0500	1	10/24/25	10/25/25	
Total Xylenes	ND	0.0250	1	10/24/25	10/25/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		93.5 %	70-130	10/24/25	10/25/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2543113
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/25	10/25/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.2 %	70-130	10/24/25	10/25/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2543107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/25	10/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/25	10/24/25	
<i>Surrogate: n-Nonane</i>						
		85.0 %	61-141	10/24/25	10/24/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2543139
Chloride	ND	20.0	1	10/24/25	10/24/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #20 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 10/27/2025 2:59:41PM
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BH25-04 2'

E510294-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2543113
Benzene	ND	0.0250	1	10/24/25	10/24/25	
Ethylbenzene	ND	0.0250	1	10/24/25	10/24/25	
Toluene	ND	0.0250	1	10/24/25	10/24/25	
o-Xylene	ND	0.0250	1	10/24/25	10/24/25	
p,m-Xylene	ND	0.0500	1	10/24/25	10/24/25	
Total Xylenes	ND	0.0250	1	10/24/25	10/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		93.5 %	70-130	10/24/25	10/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2543113
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/25	10/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.2 %	70-130	10/24/25	10/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2543107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/25	10/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/25	10/24/25	
<i>Surrogate: n-Nonane</i>						
		87.2 %	61-141	10/24/25	10/24/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2543139
Chloride	ND	20.0	1	10/24/25	10/25/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #20 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 10/27/2025 2:59:41PM
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BH25-04 3.5'

E510294-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2543113
Benzene	ND	0.0250	1	10/24/25	10/25/25	
Ethylbenzene	ND	0.0250	1	10/24/25	10/25/25	
Toluene	ND	0.0250	1	10/24/25	10/25/25	
o-Xylene	ND	0.0250	1	10/24/25	10/25/25	
p,m-Xylene	ND	0.0500	1	10/24/25	10/25/25	
Total Xylenes	ND	0.0250	1	10/24/25	10/25/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.2 %	70-130		10/24/25	10/25/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2543113
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/25	10/25/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.7 %	70-130		10/24/25	10/25/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2543107
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/25	10/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/25	10/24/25	
<i>Surrogate: n-Nonane</i>						
	89.0 %	61-141		10/24/25	10/24/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2543139
Chloride	74.5	20.0	1	10/24/25	10/25/25	



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #20 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 10/27/2025 2:59:41PM
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Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2543113-BLK1)

Prepared: 10/24/25 Analyzed: 10/24/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.31		8.00		91.3	70-130			

LCS (2543113-BS1)

Prepared: 10/24/25 Analyzed: 10/24/25

Benzene	4.80	0.0250	5.00		96.0	70-130			
Ethylbenzene	4.52	0.0250	5.00		90.4	70-130			
Toluene	4.68	0.0250	5.00		93.6	70-130			
o-Xylene	4.59	0.0250	5.00		91.9	70-130			
p,m-Xylene	9.22	0.0500	10.0		92.2	70-130			
Total Xylenes	13.8	0.0250	15.0		92.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			

Matrix Spike (2543113-MS1)

Source: E510294-06

Prepared: 10/24/25 Analyzed: 10/24/25

Benzene	5.23	0.0250	5.00	ND	105	70-130			
Ethylbenzene	4.91	0.0250	5.00	ND	98.3	70-130			
Toluene	5.10	0.0250	5.00	ND	102	70-130			
o-Xylene	5.02	0.0250	5.00	ND	100	70-130			
p,m-Xylene	10.0	0.0500	10.0	ND	100	70-130			
Total Xylenes	15.0	0.0250	15.0	ND	100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.9	70-130			

Matrix Spike Dup (2543113-MSD1)

Source: E510294-06

Prepared: 10/24/25 Analyzed: 10/27/25

Benzene	4.95	0.0250	5.00	ND	99.1	70-130	5.38	27	
Ethylbenzene	4.67	0.0250	5.00	ND	93.4	70-130	5.11	26	
Toluene	4.84	0.0250	5.00	ND	96.8	70-130	5.24	20	
o-Xylene	4.74	0.0250	5.00	ND	94.9	70-130	5.59	25	
p,m-Xylene	9.53	0.0500	10.0	ND	95.3	70-130	4.90	23	
Total Xylenes	14.3	0.0250	15.0	ND	95.1	70-130	5.13	26	
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.2	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #20 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 10/27/2025 2:59:41PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2543113-BLK1)

Prepared: 10/24/25 Analyzed: 10/24/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.7	70-130			

LCS (2543113-BS2)

Prepared: 10/24/25 Analyzed: 10/24/25

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

Matrix Spike (2543113-MS2)

Source: E510294-06

Prepared: 10/24/25 Analyzed: 10/24/25

Gasoline Range Organics (C6-C10)	55.0	20.0	50.0	ND	110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.5	70-130			

Matrix Spike Dup (2543113-MSD2)

Source: E510294-06

Prepared: 10/24/25 Analyzed: 10/24/25

Gasoline Range Organics (C6-C10)	57.0	20.0	50.0	ND	114	70-130	3.46	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #20 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 10/27/2025 2:59:41PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2543107-BLK1)

Prepared: 10/24/25 Analyzed: 10/24/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.6		50.0		89.1	61-141			

LCS (2543107-BS1)

Prepared: 10/24/25 Analyzed: 10/24/25

Diesel Range Organics (C10-C28)	230	25.0	250		92.1	66-144			
Surrogate: n-Nonane	44.2		50.0		88.4	61-141			

Matrix Spike (2543107-MS1)

Source: E510301-07

Prepared: 10/24/25 Analyzed: 10/24/25

Diesel Range Organics (C10-C28)	1050	25.0	250	909	54.7	56-156			M4
Surrogate: n-Nonane	45.2		50.0		90.4	61-141			

Matrix Spike Dup (2543107-MSD1)

Source: E510301-07

Prepared: 10/24/25 Analyzed: 10/24/25

Diesel Range Organics (C10-C28)	1420	25.0	250	909	205	56-156	30.4	20	M4, R3
Surrogate: n-Nonane	44.1		50.0		88.2	61-141			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #20 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 10/27/2025 2:59:41PM
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Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2543139-BLK1)

Prepared: 10/24/25 Analyzed: 10/24/25

Chloride ND 20.0

LCS (2543139-BS1)

Prepared: 10/24/25 Analyzed: 10/24/25

Chloride 253 20.0 250 101 90-110

Matrix Spike (2543139-MS1)

Source: E510291-08

Prepared: 10/24/25 Analyzed: 10/24/25

Chloride 388 20.0 250 139 99.6 80-120

Matrix Spike Dup (2543139-MSD1)

Source: E510291-08

Prepared: 10/24/25 Analyzed: 10/24/25

Chloride 387 20.0 250 139 99.1 80-120 0.298 20

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit #20 Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 10/27/25 14:59
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M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Custody

Client Information		Invoice Information		Lab Use Only		TAT		State					
Client: <u>Jonah Vertex</u>		Company: <u>Jonah</u>		Lab WO# <u>ES10294</u>	Job Number <u>25013-0001</u>	1D	2D	3D	Std	NM	CO	UT	TX
Project Name: <u>Jackson Unit #20</u>		Address: <u>on file</u>								<input checked="" type="checkbox"/>			
Project Manager: <u>Disposal Line</u>		City, State, Zip:											
Address: <u>Chance Dixon</u>		Phone:											
City, State, Zip: <u>ON FILE</u>		Email:											
Phone:		Miscellaneous:											
Email:													

Sample Information							Analysis and Method							EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8024	VOC by 8260	Chlorides 300-0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA	
1300	10-15-25	Soil	1	BH25-01	0"	1													47°
1310				BH25-01	2"	2													4.3°
1320				BH25-02	0"	3													44°
1330				BH25-02	2"	4													40°
1340				BH25-04	0"	5													4.4°
1350				BH25-04	2"	6													4.3°
1400				BH25-04	3.5"	7													4.9°

Additional Instructions: CC: cdixon@vertexresource.com permiq@vertexresource.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>10-19-25</u>	Time <u>16:00</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>10-23-25</u>	Time <u>950</u>	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Received on ice: <input checked="" type="checkbox"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C _____
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>1455</u>	Time <u>10-23-25</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>10-23-25</u>	Time <u>1600</u>	
Relinquished by: (Signature) <u>Marissa Gonzales</u>	Date <u>10-23-25</u>	Time <u>1930</u>	Received by: (Signature) <u>Andrew Musso</u>	Date <u>10-23-25</u>	Time <u>1930</u>	
Relinquished by: (Signature) <u>Andrew Musso</u>	Date <u>10-24-25</u>	Time <u>0230</u>	Received by: (Signature) <u>Noe Sob</u>	Date <u>10-24-25</u>	Time <u>0830</u>	

Sample Matrix: - Soil, - Solid, - Sludge, - Aqueous, - Other

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Envirotech Analytical Laboratory

Printed: 10/27/2025 7:47:46AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Vertex Resource Services Inc. Date Received: 10/24/25 08:30 Work Order ID: E510294
Phone: (575) 748-0176 Date Logged In: 10/23/25 15:54 Logged In By: Caitlin Mars
Email: cdixon@vertexresource.com Due Date: 10/27/25 17:00 (1 day TAT)

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

- 7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? Yes

Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

- 14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

- 20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? Yes

Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

- 28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Empty box for client instruction.

Comments/Resolution

Large empty box for comments/resolution.

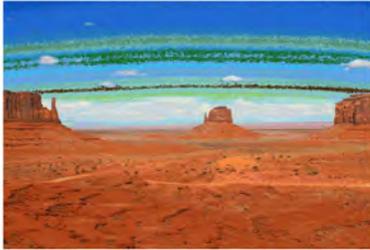
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Chance Dixon



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Vertex Resource Services Inc.

Project Name: Jackson Unit 20 Disposal Line

Work Order: E510344

Job Number: 25013-0001

Received: 10/29/2025

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/12/25

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.



Date Reported: 11/12/25

Chance Dixon
3101 Boyd Drive
Carlsbad, NM 88220

Project Name: Jackson Unit 20 Disposal Line
Workorder: E510344
Date Received: 10/29/2025 7:45:00AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/29/2025 7:45:00AM, under the Project Name: Jackson Unit 20 Disposal Line.

The analytical test results summarized in this report with the Project Name: Jackson Unit 20 Disposal Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
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Sample Summary

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/25 13:24
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TP25-02 0'	E510344-01A	Soil	10/27/25	10/29/25	Glass Jar, 2 oz.
TP25-02 2'	E510344-02A	Soil	10/27/25	10/29/25	Glass Jar, 2 oz.
TP25-03 0'	E510344-03A	Soil	10/27/25	10/29/25	Glass Jar, 2 oz.
TP25-03 2'	E510344-04A	Soil	10/27/25	10/29/25	Glass Jar, 2 oz.
TP25-03 4'	E510344-05A	Soil	10/27/25	10/29/25	Glass Jar, 2 oz.



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:24:44PM
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TP25-02 0'

E510344-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2544086	
Benzene	ND	0.0250	1	10/29/25	10/29/25	
Ethylbenzene	ND	0.0250	1	10/29/25	10/29/25	
Toluene	ND	0.0250	1	10/29/25	10/29/25	
o-Xylene	ND	0.0250	1	10/29/25	10/29/25	
p,m-Xylene	ND	0.0500	1	10/29/25	10/29/25	
Total Xylenes	ND	0.0250	1	10/29/25	10/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.2 %	70-130	10/29/25	10/29/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2544086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/25	10/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.2 %	70-130	10/29/25	10/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2544113	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/25	10/31/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/25	10/31/25	
<i>Surrogate: n-Nonane</i>		91.1 %	61-141	10/30/25	10/31/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2544142	
Chloride	219	20.0	1	11/03/25	11/04/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:24:44PM
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TP25-02 2'

E510344-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2544086
Benzene	ND	0.0250	1	10/29/25	10/29/25	
Ethylbenzene	ND	0.0250	1	10/29/25	10/29/25	
Toluene	ND	0.0250	1	10/29/25	10/29/25	
o-Xylene	ND	0.0250	1	10/29/25	10/29/25	
p,m-Xylene	ND	0.0500	1	10/29/25	10/29/25	
Total Xylenes	ND	0.0250	1	10/29/25	10/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		93.3 %	70-130	10/29/25	10/29/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2544086
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/25	10/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.4 %	70-130	10/29/25	10/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2544113
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/25	10/31/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/25	10/31/25	
<i>Surrogate: n-Nonane</i>						
		90.1 %	61-141	10/30/25	10/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2544142
Chloride	177	20.0	1	11/03/25	11/04/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:24:44PM
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TP25-03 0'

E510344-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2544086
Benzene	ND	0.0250	1	10/29/25	10/29/25	
Ethylbenzene	ND	0.0250	1	10/29/25	10/29/25	
Toluene	ND	0.0250	1	10/29/25	10/29/25	
o-Xylene	ND	0.0250	1	10/29/25	10/29/25	
p,m-Xylene	ND	0.0500	1	10/29/25	10/29/25	
Total Xylenes	ND	0.0250	1	10/29/25	10/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		90.2 %	70-130	10/29/25	10/29/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2544086
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/25	10/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.2 %	70-130	10/29/25	10/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2544113
Diesel Range Organics (C10-C28)	300	25.0	1	10/30/25	10/31/25	
Oil Range Organics (C28-C36)	292	50.0	1	10/30/25	10/31/25	
<i>Surrogate: n-Nonane</i>						
		91.8 %	61-141	10/30/25	10/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2544142
Chloride	5210	40.0	2	11/03/25	11/04/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:24:44PM
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TP25-03 2'

E510344-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2544086
Benzene	ND	0.0250	1	10/29/25	10/30/25	
Ethylbenzene	ND	0.0250	1	10/29/25	10/30/25	
Toluene	ND	0.0250	1	10/29/25	10/30/25	
o-Xylene	ND	0.0250	1	10/29/25	10/30/25	
p,m-Xylene	ND	0.0500	1	10/29/25	10/30/25	
Total Xylenes	ND	0.0250	1	10/29/25	10/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.9 %	70-130	10/29/25	10/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2544086
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/25	10/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.3 %	70-130	10/29/25	10/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2544113
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/25	10/31/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/25	10/31/25	
<i>Surrogate: n-Nonane</i>		93.9 %	61-141	10/30/25	10/31/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2544142
Chloride	6790	100	5	11/03/25	11/04/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:24:44PM
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TP25-03 4'

E510344-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2544086
Benzene	ND	0.0250	1	10/29/25	10/30/25	
Ethylbenzene	ND	0.0250	1	10/29/25	10/30/25	
Toluene	ND	0.0250	1	10/29/25	10/30/25	
o-Xylene	ND	0.0250	1	10/29/25	10/30/25	
p,m-Xylene	ND	0.0500	1	10/29/25	10/30/25	
Total Xylenes	ND	0.0250	1	10/29/25	10/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		93.5 %	70-130	10/29/25	10/30/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2544086
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/25	10/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.4 %	70-130	10/29/25	10/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2544113
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/25	10/31/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/25	10/31/25	
<i>Surrogate: n-Nonane</i>						
		95.1 %	61-141	10/30/25	10/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2544142
Chloride	12200	200	10	11/03/25	11/04/25	



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:24:44PM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2544086-BLK1)

Prepared: 10/29/25 Analyzed: 10/29/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.8	70-130			

LCS (2544086-BS1)

Prepared: 10/29/25 Analyzed: 10/29/25

Benzene	4.73	0.0250	5.00		94.6	70-130			
Ethylbenzene	4.50	0.0250	5.00		90.1	70-130			
Toluene	4.66	0.0250	5.00		93.3	70-130			
o-Xylene	4.61	0.0250	5.00		92.3	70-130			
p,m-Xylene	9.20	0.0500	10.0		92.0	70-130			
Total Xylenes	13.8	0.0250	15.0		92.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

Matrix Spike (2544086-MS1)

Source: E510339-05

Prepared: 10/29/25 Analyzed: 10/29/25

Benzene	4.93	0.0250	5.00	ND	98.7	70-130			
Ethylbenzene	4.72	0.0250	5.00	ND	94.3	70-130			
Toluene	4.87	0.0250	5.00	ND	97.5	70-130			
o-Xylene	4.83	0.0250	5.00	ND	96.7	70-130			
p,m-Xylene	9.61	0.0500	10.0	ND	96.1	70-130			
Total Xylenes	14.4	0.0250	15.0	ND	96.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

Matrix Spike Dup (2544086-MSD1)

Source: E510339-05

Prepared: 10/29/25 Analyzed: 10/29/25

Benzene	4.70	0.0250	5.00	ND	94.0	70-130	4.84	27	
Ethylbenzene	4.50	0.0250	5.00	ND	89.9	70-130	4.82	26	
Toluene	4.63	0.0250	5.00	ND	92.7	70-130	5.05	20	
o-Xylene	4.59	0.0250	5.00	ND	91.9	70-130	5.10	25	
p,m-Xylene	9.18	0.0500	10.0	ND	91.8	70-130	4.57	23	
Total Xylenes	13.8	0.0250	15.0	ND	91.9	70-130	4.75	26	
Surrogate: 4-Bromochlorobenzene-PID	7.38		8.00		92.3	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:24:44PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2544086-BLK1)

Prepared: 10/29/25 Analyzed: 10/29/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.2	70-130			

LCS (2544086-BS2)

Prepared: 10/29/25 Analyzed: 10/29/25

Gasoline Range Organics (C6-C10)	43.4	20.0	50.0		86.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.14		8.00		89.3	70-130			

Matrix Spike (2544086-MS2)

Source: E510339-05

Prepared: 10/29/25 Analyzed: 10/29/25

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.7	70-130			

Matrix Spike Dup (2544086-MSD2)

Source: E510339-05

Prepared: 10/29/25 Analyzed: 10/29/25

Gasoline Range Organics (C6-C10)	50.1	20.0	50.0	ND	100	70-130	7.99	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.2	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:24:44PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2544113-BLK1)

Prepared: 10/30/25 Analyzed: 10/30/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	47.0		50.0		94.1	61-141			

LCS (2544113-BS1)

Prepared: 10/30/25 Analyzed: 10/30/25

Diesel Range Organics (C10-C28)	261	25.0	250		104	66-144			
Surrogate: <i>n</i> -Nonane	45.2		50.0		90.5	61-141			

Matrix Spike (2544113-MS1)

Source: E510339-04

Prepared: 10/30/25 Analyzed: 10/30/25

Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	56-156			
Surrogate: <i>n</i> -Nonane	48.2		50.0		96.4	61-141			

Matrix Spike Dup (2544113-MSD1)

Source: E510339-04

Prepared: 10/30/25 Analyzed: 10/30/25

Diesel Range Organics (C10-C28)	273	25.0	250	ND	109	56-156	1.13	20	
Surrogate: <i>n</i> -Nonane	47.9		50.0		95.9	61-141			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:24:44PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2544142-BLK1)

Prepared: 11/03/25 Analyzed: 11/04/25

Chloride ND 20.0

LCS (2544142-BS1)

Prepared: 11/03/25 Analyzed: 11/04/25

Chloride 252 20.0 250 101 90-110

Matrix Spike (2544142-MS1)

Source: E510345-06

Prepared: 11/03/25 Analyzed: 11/04/25

Chloride 255 20.0 250 ND 102 80-120

Matrix Spike Dup (2544142-MSD1)

Source: E510345-06

Prepared: 11/03/25 Analyzed: 11/04/25

Chloride 256 20.0 250 ND 102 80-120 0.495 20

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/25 13:24
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Vertex (bill direct to Jonah Energy LLC)				Company: Jonah Energy LLC				Lab WO# 4				Job Number				NM CO UT TX			
Project Name: Jackson Unit 20 Disposal Line				Address: 370 17th St.				E510345				25013.0001							
Project Manager: Chance Dixon				City, State, Zip: Denver, CO 80202				CM 10/29/25											
Project Number: 25A-04596				Phone: 970-222-6263															
City, State, Zip: Carlsbad NM, 88220				Email: leighann.kollath@jonahenergy.com															
Phone: 575-988-1472				Miscellaneous: Direct bill to Jonah Energy															
Email: cdixon@vertexresource.com				ATTN: Leigh Ann Kollath															

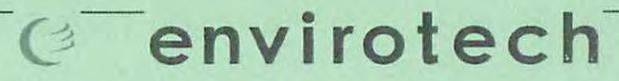
Sample Information										Analysis and Method								EPA Program		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA			
				NS 11-12-25																
13:51	10.27.2025	Soil	1	TP #H25-02 0'		1	X	X	X	X							1.2 changed			
14:02	10.27.2025	Soil	1	TP #H25-02 2'		2	X	X	X	X							1.5 sample			
15:22	10.27.2025	Soil	1	TP #H25-03 0'		3	X	X	X	X							2.0 names			
15:25	10.27.2025	Soil	1	TP #H25-03 2'		4	X	X	X	X							1.4 per client.			
15:30	10.27.2025	Soil	1	TP #H25-03 4'		5	X	X	X	X							1.3 NS 11-12-25			
		Soil	1				X	X	X	X										
		Soil	1				X	X	X	X										
		Soil	1				X	X	X	X										
		Soil	1				X	X	X	X										
		Soil	1				X	X	X	X										

Additional Instructions: Direct bill to Jonah Energy LLC ATTN: Leigh Ann Kollath. Incident nAPP2523053945.
 Please email final report to cdixon@vertexresource.com, permian@vertexresource.com, lpullman@vertexresource.com, aharris@vertexresource.com, Aludvik@vertexresource.com

(Field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
 Sampled by: L. Pullman

Relinquished by (Signature): <i>L. Pullman</i>	Date: 10-28-2025	Time: 1100	Received by (Signature): <i>Michelle Gonzales</i>	Date: 10-28-25	Time: 1100	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA
Relinquished by (Signature): <i>Michelle Gonzales</i>	Date: 10-28-25	Time: 1445	Received by (Signature): <i>Marissa Gonzales</i>	Date: 10-28-25	Time: 1445	
Relinquished by (Signature): <i>Marissa Gonzales</i>	Date: 10-28-25	Time: 1920	Received by (Signature): <i>Andrew Musso</i>	Date: 10-28-25	Time: 1920	
Relinquished by (Signature): <i>Andrew Musso</i>	Date: 10-28-25	Time: 2315	Received by (Signature): <i>Cruth Man</i>	Date: 10-29-25	Time: 745	

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Vertex (bill direct to Jonah Energy LLC)				Company: Jonah Energy LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: Jackson Unit 20 Disposal Line				Address: 370 17th St.				E510345 ⁴		25013.0001					X				
Project Manager: Chance Dixon				City, State, Zip: Denver, CO 80202				CM 10/29/25											
Project Number: 25A-04596				Phone: 970-222-6263				Analysis and Method											
City, State, Zip: Carlsbad NM, 88220				Email: leighann.kollath@jonahenergy.com				EPA Program											
Phone: 575-988-1472				Miscellaneous: Direct bill to Jonah Energy				SDWA											
Email: cdixon@vertexresource.com				ATTN: Leigh Ann Kollath				CWA											
								RCRA											
								Compliance											
								Y or N											
								PWSID #											
								Remarks											

Sample Information										Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	Compliance	PWSID #	Remarks	
13:51	10.27.2025	Soil	1	BH25-02 0'		1	X	X	X		X										1.2
14:02	10.27.2025	Soil	1	BH25-02 2'		2	X	X	X		X										1.5
15:22	10.27.2025	Soil	1	BH25-03 0'		3	X	X	X		X										2.0
15:25	10.27.2025	Soil	1	BH25-03 2'		4	X	X	X		X										1.4
15:30	10.27.2025	Soil	1	BH25-03 4'		8	X	X	X		X										1.3
		Soil	1				X	X	X		X										
		Soil	1				X	X	X		X										
		Soil	1				X	X	X		X										
		Soil	1				X	X	X		X										

Additional Instructions: Direct bill to Jonah Energy LLC ATTN: Leigh Ann Kollath. Incident nAPP2523053945.
 Please email final report to cdixon@vertexresource.com, permian@vertexresource.com, lpullman@vertexresource.com, aharris@vertexresource.com, ALudvik@vertexresource.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: L. Pullman										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.									
Relinquished by: (Signature) L. Pullman	Date 10-28-2025	Time 1100	Received by: (Signature) Michelle Gonzales	Date 10-28-25	Time 1100	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N				Lab Use Only									
Relinquished by: (Signature) Michelle Gonzales	Date 10-28-25	Time 1445	Received by: (Signature) Marissa Gonzales	Date 10-28-25	Time 1445	T1	T2	T3	AVG Temp °C										
Relinquished by: (Signature) Marissa Gonzales	Date 10-28-25	Time 1920	Received by: (Signature) Andrew Musso	Date 10-28-25	Time 1920														
Relinquished by: (Signature) Andrew Musso	Date 10-28-25	Time 2315	Received by: (Signature) Cath Man	Date 10-29-25	Time 745														
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Envirotech Analytical Laboratory

Printed: 10/29/2025 9:21:13AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Vertex Resource Services Inc. Date Received: 10/29/25 07:45 Work Order ID: E510344
Phone: (575) 748-0176 Date Logged In: 10/28/25 15:41 Logged In By: Caitlin Mars
Email: cdixon@vertexresource.com Due Date: 11/04/25 17:00 (4 day TAT)

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

- 7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? Yes

Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

- 14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

- 20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? Yes

Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

- 28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Empty box for Client Instruction

Comments/Resolution

Large empty box for Comments/Resolution

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Chance Dixon



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Vertex Resource Services Inc.

Project Name: Jackson Unit 20 Disposal Line

Work Order: E510367

Job Number: 25013-0001

Received: 10/30/2025

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/12/25

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.



Date Reported: 11/12/25

Chance Dixon
3101 Boyd Drive
Carlsbad, NM 88220

Project Name: Jackson Unit 20 Disposal Line
Workorder: E510367
Date Received: 10/30/2025 6:15:00AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/30/2025 6:15:00AM, under the Project Name: Jackson Unit 20 Disposal Line.

The analytical test results summarized in this report with the Project Name: Jackson Unit 20 Disposal Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/25 13:30
--	--	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TP25-05 0'	E510367-01A	Soil	10/28/25	10/30/25	Glass Jar, 2 oz.
TP25-05 2'	E510367-02A	Soil	10/28/25	10/30/25	Glass Jar, 2 oz.
TP25-06 0'	E510367-03A	Soil	10/28/25	10/30/25	Glass Jar, 2 oz.
TP25-06 2'	E510367-04A	Soil	10/28/25	10/30/25	Glass Jar, 2 oz.
TP25-06 4'	E510367-05A	Soil	10/28/25	10/30/25	Glass Jar, 2 oz.
TP25-08 0'	E510367-06A	Soil	10/28/25	10/30/25	Glass Jar, 2 oz.
TP25-08 2'	E510367-07A	Soil	10/28/25	10/30/25	Glass Jar, 2 oz.
TP25-09 0'	E510367-08A	Soil	10/28/25	10/30/25	Glass Jar, 2 oz.
TP25-09 2'	E510367-09A	Soil	10/28/25	10/30/25	Glass Jar, 2 oz.
TP25-09 4'	E510367-10A	Soil	10/28/25	10/30/25	Glass Jar, 2 oz.
TP25-11 0'	E510367-11A	Soil	10/28/25	10/30/25	Glass Jar, 2 oz.
TP25-11 2'	E510367-12A	Soil	10/28/25	10/30/25	Glass Jar, 2 oz.
TP25-12 0'	E510367-13A	Soil	10/28/25	10/30/25	Glass Jar, 2 oz.
TP25-12 2'	E510367-14A	Soil	10/28/25	10/30/25	Glass Jar, 2 oz.
TP25-13 0'	E510367-15A	Soil	10/28/25	10/30/25	Glass Jar, 2 oz.
TP25-13 2'	E510367-16A	Soil	10/28/25	10/30/25	Glass Jar, 2 oz.
TP25-14 0'	E510367-17A	Soil	10/28/25	10/30/25	Glass Jar, 2 oz.
TP25-14 2'	E510367-18A	Soil	10/28/25	10/30/25	Glass Jar, 2 oz.
TP25-14 4'	E510367-19A	Soil	10/28/25	10/30/25	Glass Jar, 2 oz.

Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:30:06PM
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TP25-05 0'
E510367-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Benzene	ND	0.0250	1	10/30/25	11/01/25	
Ethylbenzene	ND	0.0250	1	10/30/25	11/01/25	
Toluene	ND	0.0250	1	10/30/25	11/01/25	
o-Xylene	ND	0.0250	1	10/30/25	11/01/25	
p,m-Xylene	ND	0.0500	1	10/30/25	11/01/25	
Total Xylenes	ND	0.0250	1	10/30/25	11/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		99.5 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/25	11/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.1 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2544147
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/03/25	
Oil Range Organics (C28-C36)	66.0	50.0	1	10/31/25	11/03/25	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	10/31/25	11/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2545018
Chloride	ND	20.0	1	11/03/25	11/03/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:30:06PM
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TP25-05 2'

E510367-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Benzene	ND	0.0250	1	10/30/25	11/01/25	
Ethylbenzene	ND	0.0250	1	10/30/25	11/01/25	
Toluene	ND	0.0250	1	10/30/25	11/01/25	
o-Xylene	ND	0.0250	1	10/30/25	11/01/25	
p,m-Xylene	ND	0.0500	1	10/30/25	11/01/25	
Total Xylenes	ND	0.0250	1	10/30/25	11/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.7 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/25	11/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.7 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2544147
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/03/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	10/31/25	11/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2545018
Chloride	36.5	20.0	1	11/03/25	11/03/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:30:06PM
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TP25-06 0'

E510367-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Benzene	ND	0.0250	1	10/30/25	11/01/25	
Ethylbenzene	ND	0.0250	1	10/30/25	11/01/25	
Toluene	ND	0.0250	1	10/30/25	11/01/25	
o-Xylene	ND	0.0250	1	10/30/25	11/01/25	
p,m-Xylene	ND	0.0500	1	10/30/25	11/01/25	
Total Xylenes	ND	0.0250	1	10/30/25	11/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		98.0 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/25	11/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.0 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2544147
Diesel Range Organics (C10-C28)	5510	125	5	10/31/25	11/03/25	
Oil Range Organics (C28-C36)	4490	250	5	10/31/25	11/03/25	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	10/31/25	11/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2545018
Chloride	6710	100	5	11/03/25	11/03/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:30:06PM
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TP25-06 2'

E510367-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Benzene	ND	0.0250	1	10/30/25	11/01/25	
Ethylbenzene	ND	0.0250	1	10/30/25	11/01/25	
Toluene	ND	0.0250	1	10/30/25	11/01/25	
o-Xylene	ND	0.0250	1	10/30/25	11/01/25	
p,m-Xylene	ND	0.0500	1	10/30/25	11/01/25	
Total Xylenes	ND	0.0250	1	10/30/25	11/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.0 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/25	11/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.3 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2544147
Diesel Range Organics (C10-C28)	41.0	25.0	1	10/31/25	11/03/25	
Oil Range Organics (C28-C36)	94.8	50.0	1	10/31/25	11/03/25	
<i>Surrogate: n-Nonane</i>		103 %	61-141	10/31/25	11/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2545018
Chloride	3830	40.0	2	11/03/25	11/03/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:30:06PM
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TP25-06 4'

E510367-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Benzene	ND	0.0250	1	10/30/25	11/01/25	
Ethylbenzene	ND	0.0250	1	10/30/25	11/01/25	
Toluene	ND	0.0250	1	10/30/25	11/01/25	
o-Xylene	ND	0.0250	1	10/30/25	11/01/25	
p,m-Xylene	ND	0.0500	1	10/30/25	11/01/25	
Total Xylenes	ND	0.0250	1	10/30/25	11/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/25	11/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.4 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2544147
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>		113 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2545018
Chloride	13200	200	10	11/03/25	11/03/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:30:06PM
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TP25-08 0'

E510367-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Benzene	ND	0.0250	1	10/30/25	11/01/25	
Ethylbenzene	ND	0.0250	1	10/30/25	11/01/25	
Toluene	ND	0.0250	1	10/30/25	11/01/25	
o-Xylene	ND	0.0250	1	10/30/25	11/01/25	
p,m-Xylene	ND	0.0500	1	10/30/25	11/01/25	
Total Xylenes	ND	0.0250	1	10/30/25	11/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		98.8 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/25	11/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.3 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2544147
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2545018
Chloride	ND	20.0	1	11/03/25	11/03/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:30:06PM
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TP25-08 2'

E510367-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Benzene	ND	0.0250	1	10/30/25	11/01/25	
Ethylbenzene	ND	0.0250	1	10/30/25	11/01/25	
Toluene	ND	0.0250	1	10/30/25	11/01/25	
o-Xylene	ND	0.0250	1	10/30/25	11/01/25	
p,m-Xylene	ND	0.0500	1	10/30/25	11/01/25	
Total Xylenes	ND	0.0250	1	10/30/25	11/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.7 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/25	11/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.8 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2544147
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>		107 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2545018
Chloride	ND	20.0	1	11/03/25	11/03/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:30:06PM
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TP25-09 0'

E510367-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Benzene	ND	0.0250	1	10/30/25	11/01/25	
Ethylbenzene	ND	0.0250	1	10/30/25	11/01/25	
Toluene	ND	0.0250	1	10/30/25	11/01/25	
o-Xylene	ND	0.0250	1	10/30/25	11/01/25	
p,m-Xylene	ND	0.0500	1	10/30/25	11/01/25	
Total Xylenes	ND	0.0250	1	10/30/25	11/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.2 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/25	11/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.3 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2544147
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2545018
Chloride	4770	40.0	2	11/03/25	11/03/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:30:06PM
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TP25-09 2'

E510367-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Benzene	ND	0.0250	1	10/30/25	11/01/25	
Ethylbenzene	ND	0.0250	1	10/30/25	11/01/25	
Toluene	ND	0.0250	1	10/30/25	11/01/25	
o-Xylene	ND	0.0250	1	10/30/25	11/01/25	
p,m-Xylene	ND	0.0500	1	10/30/25	11/01/25	
Total Xylenes	ND	0.0250	1	10/30/25	11/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/25	11/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.8 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2544147
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>						
		108 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2545018
Chloride	7060	100	5	11/03/25	11/03/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:30:06PM
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TP25-09 4'

E510367-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2544122	
Benzene	ND	0.0250	1	10/30/25	11/01/25	
Ethylbenzene	ND	0.0250	1	10/30/25	11/01/25	
Toluene	ND	0.0250	1	10/30/25	11/01/25	
o-Xylene	ND	0.0250	1	10/30/25	11/01/25	
p,m-Xylene	ND	0.0500	1	10/30/25	11/01/25	
Total Xylenes	ND	0.0250	1	10/30/25	11/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.0 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2544122	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/25	11/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.4 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2544147	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>		102 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2545018	
Chloride	852	20.0	1	11/03/25	11/03/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:30:06PM
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TP25-11 0'

E510367-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Benzene	ND	0.0250	1	10/30/25	11/01/25	
Ethylbenzene	ND	0.0250	1	10/30/25	11/01/25	
Toluene	ND	0.0250	1	10/30/25	11/01/25	
o-Xylene	ND	0.0250	1	10/30/25	11/01/25	
p,m-Xylene	ND	0.0500	1	10/30/25	11/01/25	
Total Xylenes	ND	0.0250	1	10/30/25	11/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.2 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/25	11/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.8 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2544147
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>		103 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2545018
Chloride	77.8	20.0	1	11/03/25	11/03/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:30:06PM
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TP25-11 2'

E510367-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Benzene	ND	0.0250	1	10/30/25	11/01/25	
Ethylbenzene	ND	0.0250	1	10/30/25	11/01/25	
Toluene	ND	0.0250	1	10/30/25	11/01/25	
o-Xylene	ND	0.0250	1	10/30/25	11/01/25	
p,m-Xylene	ND	0.0500	1	10/30/25	11/01/25	
Total Xylenes	ND	0.0250	1	10/30/25	11/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/25	11/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.9 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2544147
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2545018
Chloride	ND	20.0	1	11/03/25	11/03/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:30:06PM
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TP25-12 0'

E510367-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Benzene	ND	0.0250	1	10/30/25	11/01/25	
Ethylbenzene	ND	0.0250	1	10/30/25	11/01/25	
Toluene	ND	0.0250	1	10/30/25	11/01/25	
o-Xylene	ND	0.0250	1	10/30/25	11/01/25	
p,m-Xylene	ND	0.0500	1	10/30/25	11/01/25	
Total Xylenes	ND	0.0250	1	10/30/25	11/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.2 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/25	11/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.3 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2544147
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2545018
Chloride	ND	20.0	1	11/03/25	11/03/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:30:06PM
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TP25-12 2'

E510367-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Benzene	ND	0.0250	1	10/30/25	11/01/25	
Ethylbenzene	ND	0.0250	1	10/30/25	11/01/25	
Toluene	ND	0.0250	1	10/30/25	11/01/25	
o-Xylene	ND	0.0250	1	10/30/25	11/01/25	
p,m-Xylene	ND	0.0500	1	10/30/25	11/01/25	
Total Xylenes	ND	0.0250	1	10/30/25	11/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		98.4 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/25	11/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.0 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2544147
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>						
		105 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2545018
Chloride	ND	20.0	1	11/03/25	11/03/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:30:06PM
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TP25-13 0'

E510367-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Benzene	ND	0.0250	1	10/30/25	11/01/25	
Ethylbenzene	ND	0.0250	1	10/30/25	11/01/25	
Toluene	ND	0.0250	1	10/30/25	11/01/25	
o-Xylene	ND	0.0250	1	10/30/25	11/01/25	
p,m-Xylene	ND	0.0500	1	10/30/25	11/01/25	
Total Xylenes	ND	0.0250	1	10/30/25	11/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		98.2 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/25	11/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.7 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2544147
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>						
		114 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2545018
Chloride	ND	20.0	1	11/03/25	11/03/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:30:06PM
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TP25-13 2'

E510367-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Benzene	ND	0.0250	1	10/30/25	11/01/25	
Ethylbenzene	ND	0.0250	1	10/30/25	11/01/25	
Toluene	ND	0.0250	1	10/30/25	11/01/25	
o-Xylene	ND	0.0250	1	10/30/25	11/01/25	
p,m-Xylene	ND	0.0500	1	10/30/25	11/01/25	
Total Xylenes	ND	0.0250	1	10/30/25	11/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/25	11/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.6 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2544147
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>						
		117 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2545018
Chloride	31.4	20.0	1	11/03/25	11/03/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:30:06PM
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TP25-14 0'

E510367-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Benzene	ND	0.0250	1	10/30/25	11/01/25	
Ethylbenzene	ND	0.0250	1	10/30/25	11/01/25	
Toluene	ND	0.0250	1	10/30/25	11/01/25	
o-Xylene	ND	0.0250	1	10/30/25	11/01/25	
p,m-Xylene	ND	0.0500	1	10/30/25	11/01/25	
Total Xylenes	ND	0.0250	1	10/30/25	11/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.2 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/25	11/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.0 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2544147
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>		120 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2545018
Chloride	101	20.0	1	11/03/25	11/03/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:30:06PM
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TP25-14 2'

E510367-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Benzene	ND	0.0250	1	10/30/25	11/01/25	
Ethylbenzene	ND	0.0250	1	10/30/25	11/01/25	
Toluene	ND	0.0250	1	10/30/25	11/01/25	
o-Xylene	ND	0.0250	1	10/30/25	11/01/25	
p,m-Xylene	ND	0.0500	1	10/30/25	11/01/25	
Total Xylenes	ND	0.0250	1	10/30/25	11/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.6 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/25	11/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.6 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2544147
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>		107 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2545018
Chloride	27.4	20.0	1	11/03/25	11/03/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:30:06PM
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TP25-14 4'

E510367-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Benzene	ND	0.0250	1	10/30/25	11/01/25	
Ethylbenzene	ND	0.0250	1	10/30/25	11/01/25	
Toluene	ND	0.0250	1	10/30/25	11/01/25	
o-Xylene	ND	0.0250	1	10/30/25	11/01/25	
p,m-Xylene	ND	0.0500	1	10/30/25	11/01/25	
Total Xylenes	ND	0.0250	1	10/30/25	11/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.9 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2544122
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/25	11/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.4 %	70-130	10/30/25	11/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2544147
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>		107 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2545018
Chloride	33.9	20.0	1	11/03/25	11/03/25	



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:30:06PM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2544122-BLK1)

Prepared: 10/30/25 Analyzed: 11/01/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.89		8.00		98.6	70-130			

LCS (2544122-BS1)

Prepared: 10/30/25 Analyzed: 11/01/25

Benzene	5.88	0.0250	5.00		118	70-130			
Ethylbenzene	5.70	0.0250	5.00		114	70-130			
Toluene	5.86	0.0250	5.00		117	70-130			
o-Xylene	5.78	0.0250	5.00		116	70-130			
p,m-Xylene	11.7	0.0500	10.0		117	70-130			
Total Xylenes	17.5	0.0250	15.0		116	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.88		8.00		98.5	70-130			

Matrix Spike (2544122-MS1)

Source: E510367-02

Prepared: 10/30/25 Analyzed: 11/01/25

Benzene	5.32	0.0250	5.00	ND	106	70-130			
Ethylbenzene	5.15	0.0250	5.00	ND	103	70-130			
Toluene	5.29	0.0250	5.00	ND	106	70-130			
o-Xylene	5.23	0.0250	5.00	ND	105	70-130			
p,m-Xylene	10.6	0.0500	10.0	ND	106	70-130			
Total Xylenes	15.8	0.0250	15.0	ND	105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.9	70-130			

Matrix Spike Dup (2544122-MSD1)

Source: E510367-02

Prepared: 10/30/25 Analyzed: 11/01/25

Benzene	5.69	0.0250	5.00	ND	114	70-130	6.74	27	
Ethylbenzene	5.54	0.0250	5.00	ND	111	70-130	7.30	26	
Toluene	5.67	0.0250	5.00	ND	113	70-130	6.97	20	
o-Xylene	5.61	0.0250	5.00	ND	112	70-130	6.95	25	
p,m-Xylene	11.3	0.0500	10.0	ND	113	70-130	7.24	23	
Total Xylenes	17.0	0.0250	15.0	ND	113	70-130	7.14	26	
Surrogate: 4-Bromochlorobenzene-PID	8.06		8.00		101	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:30:06PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2544122-BLK1)

Prepared: 10/30/25 Analyzed: 11/01/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			

LCS (2544122-BS2)

Prepared: 10/30/25 Analyzed: 11/01/25

Gasoline Range Organics (C6-C10)	46.3	20.0	50.0		92.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.4	70-130			

Matrix Spike (2544122-MS2)

Source: E510367-02

Prepared: 10/30/25 Analyzed: 11/01/25

Gasoline Range Organics (C6-C10)	50.2	20.0	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.7	70-130			

Matrix Spike Dup (2544122-MSD2)

Source: E510367-02

Prepared: 10/30/25 Analyzed: 11/01/25

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.3	70-130	6.17	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.9	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:30:06PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2544147-BLK1)

Prepared: 10/31/25 Analyzed: 11/01/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	52.4		50.0		105	61-141			

LCS (2544147-BS1)

Prepared: 10/31/25 Analyzed: 11/01/25

Diesel Range Organics (C10-C28)	289	25.0	250		116	66-144			
Surrogate: <i>n</i> -Nonane	51.9		50.0		104	61-141			

Matrix Spike (2544147-MS1)

Source: E510367-03

Prepared: 10/31/25 Analyzed: 11/03/25

Diesel Range Organics (C10-C28)	6470	125	250	5510	385	56-156			M4
Surrogate: <i>n</i> -Nonane	53.4		50.0		107	61-141			

Matrix Spike Dup (2544147-MSD1)

Source: E510367-03

Prepared: 10/31/25 Analyzed: 11/03/25

Diesel Range Organics (C10-C28)	5440	125	250	5510	NR	56-156	17.4	20	M4
Surrogate: <i>n</i> -Nonane	48.5		50.0		97.0	61-141			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/2025 1:30:06PM
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Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2545018-BLK1)

Prepared: 11/03/25 Analyzed: 11/03/25

Chloride	ND	20.0							
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LCS (2545018-BS1)

Prepared: 11/03/25 Analyzed: 11/03/25

Chloride	258	20.0	250		103	90-110			
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Matrix Spike (2545018-MS1)

Source: E510367-10

Prepared: 11/03/25 Analyzed: 11/03/25

Chloride	1090	20.0	250	852	95.3	80-120			
----------	------	------	-----	-----	------	--------	--	--	--

Matrix Spike Dup (2545018-MSD1)

Source: E510367-10

Prepared: 11/03/25 Analyzed: 11/03/25

Chloride	1060	20.0	250	852	84.2	80-120	2.59	20	
----------	------	------	-----	-----	------	--------	------	----	--

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/12/25 13:30
--	--	------------------------------------

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client Information				Invoice Information				Lab Use Only				TAT				State					
Client: Vertex (bill direct to Jonah Energy LLC)				Company: Jonah Energy LLC				Lab WO#		Job Number		1D	2D	3D	Std		NM	CO	UT	TX	
Project Name: Jackson Unit 20 Disposal Line				Address: 370 17th St.				E510307		25013.0001					X						
Project Manager: Chance Dixon				City, State, Zip: Denver, CO 80202																	
Project Number: 25A-04596				Phone: 970-222-6263																	
City, State, Zip: Carlsbad NM, 88220				Email: leighann.kollath@jonahenergy.com																	
Phone: 575-988-1472				Miscellaneous: Direct bill to Jonah Energy																	
Email: cdixon@vertexresource.com				ATTN: Leigh Ann Kollath																	

Sample Information							Analysis and Method								EPA Program		
Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
				NS 11-12-25													
10:57	10.28.2025	Soil	1	TP BH25-05 0'		1	X	X	X	X					2.9		changed
11:02	10.28.2025	Soil	1	TP BH25-05 2'		2	X	X	X	X					3.0		sample
10:45	10.28.2025	Soil	1	TP BH25-06 0'		3	X	X	X	X					0.6		names
10:47	10.28.2025	Soil	1	TP BH25-06 2'		4	X	X	X	X					0.5		per client.
10:53	10.28.2025	Soil	1	TP BH25-06 4'		5	X	X	X	X					0.9		NS 11-12-25
9:12	10.28.2025	Soil	1	TP BH25-08 0'		6	X	X	X	X					1.5		
9:20	10.28.2025	Soil	1	TP BH25-08 2'		7	X	X	X	X					1.9		
11:13	10.28.2025	Soil	1	TP BH25-09 0'		8	X	X	X	X					1.8		
11:15	10.28.2025	Soil	1	TP BH25-09 2'		9	X	X	X	X					0.5		
11:31	10.28.2025	Soil	1	TP BH25-09 4'		10	X	X	X	X					3.1		

Additional Instructions: Direct bill to Jonah Energy LLC ATTN: Leigh Ann Kollath. Incident nAPP2523053945.
 Please email final report to cdixon@vertexresource.com, permian@vertexresource.com, lpullman@vertexresource.com, aharris@vertexresource.com, ALudvik@vertexresource.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
 Sampled by: **L. Pullman**

Relinquished by (Signature) <i>Sabatella</i>	Date 10-29-2015	Time 07:00	Received by (Signature) <i>Michelle Gonzalez</i>	Date 10-29-25	Time 07:00	Sample: requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at an avg temp above 0 but less than 5 °C or subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA
Relinquished by (Signature) <i>Michelle Gonzalez</i>	Date 10-29-30	Time 14:30	Received by (Signature) <i>Mariaca Gonzalez</i>	Date 10-29-25	Time 14:30	
Relinquished by (Signature) <i>Mariaca Gonzalez</i>	Date 10-29-30	Time 2015	Received by (Signature) <i>Andrew Musso</i>	Date 10-29-25	Time 2015	
Relinquished by (Signature) <i>Andrew Musso</i>	Date 10-30-25	Time 01:00	Received by (Signature) <i>Nae Sob</i>	Date 10-30-25	Time 06:15	

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Vertex (bill direct to Jonah Energy LLC)				Company: Jonah Energy LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: Jackson Unit 20 Disposal Line				Address: 370 17th St.				E510307		25013-0001					X				
Project Manager: Chance Dixon				City, State, Zip: Denver, CO 80202															
Project Number: 25A-04596				Phone: 970-222-6263															
City, State, Zip: Carlsbad NM, 88220				Email: leighann.kollath@jonahenergy.com															
Phone: 575-988-1472				Miscellaneous: Direct bill to Jonah Energy															
Email: cdixon@vertexresource.com				ATTN: Leigh Ann Kollath															

Sample Information										Analysis and Method								EPA Program		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA			
				NS 11-12-25																
12:05	10.28.2025	Soil	1	TP HH25-11 0'		11	X	X	X	X							2.2 changed			
12:10	10.28.2025	Soil	1	TP HH25-11 2'		12	X	X	X	X							2.7 sample			
14:47	10.28.2025	Soil	1	TP HH25-12 0'		13	X	X	X	X							1.8 names			
14:52	10.28.2025	Soil	1	TP HH25-12 2'		14	X	X	X	X							3.9 per client.			
8:20	10.28.2025	Soil	1	TP HH25-13 0'		15	X	X	X	X							4.0 NS 11-12-25			
8:25	10.28.2025	Soil	1	TP HH25-13 2'		16	X	X	X	X							3.6			
8:40	10.28.2025	Soil	1	TP HH25-14 0'		17	X	X	X	X							2.9			
8:45	10.28.2025	Soil	1	TP HH25-14 2'		18	X	X	X	X							2.0			
8:50	10.28.2025	Soil	1	TP HH25-14 4'		19	X	X	X	X							3.2			

Additional Instructions: Direct bill to Jonah Energy LLC ATTN: Leigh Ann Kollath. Incident nAPP2523053945.
 Please email final report to cdixon@vertexresource.com, permian@vertexresource.com, lpullman@vertexresource.com, aharris@vertexresource.com, Aludvik@vertexresource.com

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 Sampled by: L. Pullman

Relinquished by: (Signature) <i>Robert Pullman</i>	Date 10-29-25	Time 07:00	Received by: (Signature) <i>Michelle Gonzales</i>	Date 10-29-25	Time 07:00	Samples requiring thermal preservation must be received on ice the day they are sampled or received packaged in ice at an avg. temp. above 0 but less than 6° C on subsequent days. Lab Use Only Received on ice: <input type="radio"/> / N T1 _____ T2 _____ T3 _____ AVG Temp °C _____
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date 10-29-25	Time 14:30	Received by: (Signature) <i>Marissa Gonzales</i>	Date 10-29-25	Time 14:30	
Relinquished by: (Signature) <i>Marissa Gonzales</i>	Date 10-29-25	Time 2:05	Received by: (Signature) <i>Andrew Musso</i>	Date 10-29-25	Time 2:05	
Relinquished by: (Signature) <i>Andrew Musso</i>	Date 10-30-25	Time 01:00	Received by: (Signature) <i>Noe Soto</i>	Date 10-30-25	Time 06:15	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Client Information				Invoice Information				Lab Use Only				TAT				State				
Client: Vertex (bill direct to Jonah Energy LLC)				Company: Jonah Energy LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX	
Project Name: Jackson Unit 20 Disposal Line				Address: 370 17th St.				E 510367		25013.0001					X					
Project Manager: Chance Dixon				City, State, Zip: Denver, CO 80202																
Project Number: 25A-04596				Phone: 970-222-6263																
City, State, Zip: Carlsbad NM, 88220				Email: leighann.kollath@jonahenergy.com																
Phone: 575-988-1472				Miscellaneous: Direct bill to Jonah Energy																
Email: cdixon@vertexresource.com				ATTN: Leigh Ann Kollath																

Sample Information										Analysis and Method								EPA Program		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA			
10:57	10.28.2025	Soil	1	BH25-05 0'		1	X	X	X		X							2.9		
11:02	10.28.2025	Soil	1	BH25-05 2'		2	X	X	X		X							3.0		
10:45	10.28.2025	Soil	1	BH25-06 0'		3	X	X	X		X							0.6		
10:47	10.28.2025	Soil	1	BH25-06 2'		4	X	X	X		X							6.5		
10:53	10.28.2025	Soil	1	BH25-06 4'		5	X	X	X		X							0.9		
9:12	10.28.2025	Soil	1	BH25-08 0'		6	X	X	X		X							1.5		
9:20	10.28.2025	Soil	1	BH25-08 2'		7	X	X	X		X							1.9		
11:13	10.28.2025	Soil	1	BH25-09 0'		8	X	X	X		X							1.8		
11:15	10.28.2025	Soil	1	BH25-09 2'		9	X	X	X		X							0.5		
11:31	10.28.2025	Soil	1	BH25-09 4'		10	X	X	X		X							3.1		

Additional Instructions: Direct bill to Jonah Energy LLC ATTN: Leigh Ann Kollath. Incident nAPP2523053945.
 Please email final report to cdixon@vertexresource.com, permian@vertexresource.com, lpullman@vertexresource.com, aharris@vertexresource.com, ALudvik@vertexresource.com

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 Sampled by: L. Pullman

Relinquished by: (Signature) <i>L. Pullman</i>	Date 10-29-2025	Time 07:00	Received by: (Signature) <i>Michelle Gonzales</i>	Date 10-29-25	Time 0700	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C _____
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date 10-29-30	Time 1430	Received by: (Signature) <i>Marissa Gonzales</i>	Date 10-29-25	Time 1430	
Relinquished by: (Signature) <i>Marissa Gonzales</i>	Date 10-29-30	Time 2015	Received by: (Signature) <i>Andrew Musso</i>	Date 10-29-25	Time 2015	
Relinquished by: (Signature) <i>Andrew Musso</i>	Date 10-30-25	Time 0100	Received by: (Signature) <i>Ne Seb</i>	Date 10-30-25	Time 0615	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____
 Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Released to Imaging: 1/15/2026 7:15:03 AM

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Received by OCD: 1/14/2026 8:06:56 AM

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Vertex (bill direct to Jonah Energy LLC)				Company: Jonah Energy LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: Jackson Unit 20 Disposal Line				Address: 370 17th St.				E510307		25013-0001					X				
Project Manager: Chance Dixon				City, State, Zip: Denver, CO 80202															
Project Number: 25A-04596				Phone: 970-222-6263															
City, State, Zip: Carlsbad NM, 88220				Email: leighann.kollath@jonahenergy.com															
Phone: 575-988-1472				Miscellaneous: Direct bill to Jonah Energy															
Email: cdixon@vertexresource.com				ATTN: Leigh Ann Kollath															

Sample Information							Analysis and Method								EPA Program			
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12:05	10.28.2025	Soil	1	BH25-11 0'		11	X	X	X		X							2.2
12:10	10.28.2025	Soil	1	BH25-11 2'		12	X	X	X		X							2.7
14:47	10.28.2025	Soil	1	BH25-12 0'		13	X	X	X		X							1.8
14:52	10.28.2025	Soil	1	BH25-12 2'		14	X	X	X		X							3.9
8:20	10.28.2025	Soil	1	BH25-13 0'		15	X	X	X		X							4.0
8:25	10.28.2025	Soil	1	BH25-13 2'		16	X	X	X		X							3.6
8:40	10.28.2025	Soil	1	BH25-14 0'		17	X	X	X		X							2.9
8:45	10.28.2025	Soil	1	BH25-14 2'		18	X	X	X		X							2.0
8:50	10.28.2025	Soil	1	BH25-14 4'		19	X	X	X		X							3.2

Additional Instructions: Direct bill to Jonah Energy LLC ATTN: Leigh Ann Kollath. Incident nAPP2523053945.
 Please email final report to cdixon@vertexresource.com, permian@vertexresource.com, lpullman@vertexresource.com, aharris@vertexresource.com, ALudvik@vertexresource.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
 Sampled by: **L. Pullman**

Relinquished by: (Signature) <i>Robert Pullman</i>	Date 10-29-25	Time 07:00	Received by: (Signature) <i>Michelle Gonzales</i>	Date 10-29-25	Time 0700	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <input type="radio"/> / <input checked="" type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C _____
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date 10-29-25	Time 1430	Received by: (Signature) <i>Marissa Gonzales</i>	Date 10-29-25	Time 1430	
Relinquished by: (Signature) <i>Marissa Gonzales</i>	Date 10-29-25	Time 2013	Received by: (Signature) <i>Andrew Musso</i>	Date 10-29-25	Time 2015	
Relinquished by: (Signature) <i>Andrew Musso</i>	Date 10-30-25	Time 0100	Received by: (Signature) <i>Noe Sobr</i>	Date 10-30-25	Time 0615	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____
 Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



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Envirotech Analytical Laboratory

Printed: 10/30/2025 9:38:36AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Vertex Resource Services Inc. Date Received: 10/30/25 06:15 Work Order ID: E510367
Phone: (575) 748-0176 Date Logged In: 10/29/25 16:09 Logged In By: Noe Soto
Email: cdixon@vertexresource.com Due Date: 11/05/25 17:00 (4 day TAT)

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

- 7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? Yes

Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

- 14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

- 20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? Yes

Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

- 28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Empty box for client instruction.

Comments/Resolution

Large empty box for comments/resolution.

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Chance Dixon



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Vertex Resource Services Inc.

Project Name: Jackson Unit 20 Disposal Line

Work Order: E510382

Job Number: 25013-0001

Received: 10/31/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/5/25

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.



Date Reported: 11/5/25

Chance Dixon
3101 Boyd Drive
Carlsbad, NM 88220

Project Name: Jackson Unit 20 Disposal Line
Workorder: E510382
Date Received: 10/31/2025 8:00:00AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/31/2025 8:00:00AM, under the Project Name: Jackson Unit 20 Disposal Line.

The analytical test results summarized in this report with the Project Name: Jackson Unit 20 Disposal Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/05/25 17:08
--	--	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH25-15 0'	E510382-01A	Soil	10/29/25	10/31/25	Glass Jar, 2 oz.
BH25-15 2'	E510382-02A	Soil	10/29/25	10/31/25	Glass Jar, 2 oz.
BH25-15 4'	E510382-03A	Soil	10/29/25	10/31/25	Glass Jar, 2 oz.
BH25-16 0'	E510382-04A	Soil	10/29/25	10/31/25	Glass Jar, 2 oz.
BH25-16 2'	E510382-05A	Soil	10/29/25	10/31/25	Glass Jar, 2 oz.
BH25-16 4'	E510382-06A	Soil	10/29/25	10/31/25	Glass Jar, 2 oz.
BH25-17 0'	E510382-07A	Soil	10/29/25	10/31/25	Glass Jar, 2 oz.
BH25-17 2'	E510382-08A	Soil	10/29/25	10/31/25	Glass Jar, 2 oz.
BH25-18 0'	E510382-09A	Soil	10/29/25	10/31/25	Glass Jar, 2 oz.
BH25-18 2'	E510382-10A	Soil	10/29/25	10/31/25	Glass Jar, 2 oz.
BH25-18 4'	E510382-11A	Soil	10/29/25	10/31/25	Glass Jar, 2 oz.
BH25-19 0'	E510382-12A	Soil	10/29/25	10/31/25	Glass Jar, 2 oz.
BH25-19 2'	E510382-13A	Soil	10/29/25	10/31/25	Glass Jar, 2 oz.
BH25-19 4'	E510382-14A	Soil	10/29/25	10/31/25	Glass Jar, 2 oz.
BH25-20 0'	E510382-15A	Soil	10/29/25	10/31/25	Glass Jar, 2 oz.
BH25-20 2'	E510382-16A	Soil	10/29/25	10/31/25	Glass Jar, 2 oz.
BH25-20 4'	E510382-17A	Soil	10/29/25	10/31/25	Glass Jar, 2 oz.

Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/5/2025 5:08:54PM
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BH25-15 0'
E510382-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Benzene	ND	0.0250	1	10/31/25	11/04/25	
Ethylbenzene	ND	0.0250	1	10/31/25	11/04/25	
Toluene	ND	0.0250	1	10/31/25	11/04/25	
o-Xylene	ND	0.0250	1	10/31/25	11/04/25	
p,m-Xylene	ND	0.0500	1	10/31/25	11/04/25	
Total Xylenes	ND	0.0250	1	10/31/25	11/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/25	11/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		104 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2544154
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	10/31/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	10/31/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	10/31/25	10/31/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2545058
Chloride	ND	20.0	1	11/04/25	11/04/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/5/2025 5:08:54PM
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BH25-15 2'

E510382-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Benzene	ND	0.0250	1	10/31/25	11/04/25	
Ethylbenzene	ND	0.0250	1	10/31/25	11/04/25	
Toluene	ND	0.0250	1	10/31/25	11/04/25	
o-Xylene	ND	0.0250	1	10/31/25	11/04/25	
p,m-Xylene	ND	0.0500	1	10/31/25	11/04/25	
Total Xylenes	ND	0.0250	1	10/31/25	11/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/25	11/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		105 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2544154
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	10/31/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	10/31/25	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	10/31/25	10/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2545058
Chloride	33.9	20.0	1	11/04/25	11/04/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/5/2025 5:08:54PM
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BH25-15 4'

E510382-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Benzene	ND	0.0250	1	10/31/25	11/04/25	
Ethylbenzene	ND	0.0250	1	10/31/25	11/04/25	
Toluene	ND	0.0250	1	10/31/25	11/04/25	
o-Xylene	ND	0.0250	1	10/31/25	11/04/25	
p,m-Xylene	ND	0.0500	1	10/31/25	11/04/25	
Total Xylenes	ND	0.0250	1	10/31/25	11/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/25	11/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2544154
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	10/31/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	10/31/25	
<i>Surrogate: n-Nonane</i>		102 %	61-141	10/31/25	10/31/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2545058
Chloride	57.7	20.0	1	11/04/25	11/04/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/5/2025 5:08:54PM
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BH25-16 0'

E510382-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Benzene	ND	0.0250	1	10/31/25	11/04/25	
Ethylbenzene	ND	0.0250	1	10/31/25	11/04/25	
Toluene	ND	0.0250	1	10/31/25	11/04/25	
o-Xylene	ND	0.0250	1	10/31/25	11/04/25	
p,m-Xylene	ND	0.0500	1	10/31/25	11/04/25	
Total Xylenes	ND	0.0250	1	10/31/25	11/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/25	11/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2544154
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	10/31/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	10/31/25	
<i>Surrogate: n-Nonane</i>		115 %	61-141	10/31/25	10/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2545058
Chloride	ND	20.0	1	11/04/25	11/04/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/5/2025 5:08:54PM
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BH25-16 2'

E510382-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Benzene	ND	0.0250	1	10/31/25	11/03/25	
Ethylbenzene	ND	0.0250	1	10/31/25	11/03/25	
Toluene	ND	0.0250	1	10/31/25	11/03/25	
o-Xylene	ND	0.0250	1	10/31/25	11/03/25	
p,m-Xylene	ND	0.0500	1	10/31/25	11/03/25	
Total Xylenes	ND	0.0250	1	10/31/25	11/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	10/31/25	11/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/25	11/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	10/31/25	11/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2544154
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2545058
Chloride	ND	20.0	1	11/04/25	11/04/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/5/2025 5:08:54PM
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BH25-16 4'

E510382-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Benzene	ND	0.0250	1	10/31/25	11/04/25	
Ethylbenzene	ND	0.0250	1	10/31/25	11/04/25	
Toluene	ND	0.0250	1	10/31/25	11/04/25	
o-Xylene	ND	0.0250	1	10/31/25	11/04/25	
p,m-Xylene	ND	0.0500	1	10/31/25	11/04/25	
Total Xylenes	ND	0.0250	1	10/31/25	11/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/25	11/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2544154
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2545058
Chloride	103	20.0	1	11/04/25	11/04/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/5/2025 5:08:54PM
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BH25-17 0'

E510382-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Benzene	ND	0.0250	1	10/31/25	11/04/25	
Ethylbenzene	ND	0.0250	1	10/31/25	11/04/25	
Toluene	ND	0.0250	1	10/31/25	11/04/25	
o-Xylene	ND	0.0250	1	10/31/25	11/04/25	
p,m-Xylene	ND	0.0500	1	10/31/25	11/04/25	
Total Xylenes	ND	0.0250	1	10/31/25	11/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/25	11/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2544154
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>		118 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2545058
Chloride	939	20.0	1	11/04/25	11/04/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/5/2025 5:08:54PM
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BH25-17 2'

E510382-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Benzene	ND	0.0250	1	10/31/25	11/04/25	
Ethylbenzene	ND	0.0250	1	10/31/25	11/04/25	
Toluene	ND	0.0250	1	10/31/25	11/04/25	
o-Xylene	ND	0.0250	1	10/31/25	11/04/25	
p,m-Xylene	ND	0.0500	1	10/31/25	11/04/25	
Total Xylenes	ND	0.0250	1	10/31/25	11/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/25	11/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		106 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2544154
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>						
		108 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2545058
Chloride	14100	200	10	11/04/25	11/04/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/5/2025 5:08:54PM
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BH25-18 0'

E510382-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Benzene	ND	0.0250	1	10/31/25	11/04/25	
Ethylbenzene	ND	0.0250	1	10/31/25	11/04/25	
Toluene	ND	0.0250	1	10/31/25	11/04/25	
o-Xylene	ND	0.0250	1	10/31/25	11/04/25	
p,m-Xylene	ND	0.0500	1	10/31/25	11/04/25	
Total Xylenes	ND	0.0250	1	10/31/25	11/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/25	11/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		105 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2544154
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>						
		109 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2545058
Chloride	8670	200	10	11/04/25	11/04/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/5/2025 5:08:54PM
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BH25-18 2'

E510382-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Benzene	ND	0.0250	1	10/31/25	11/04/25	
Ethylbenzene	ND	0.0250	1	10/31/25	11/04/25	
Toluene	ND	0.0250	1	10/31/25	11/04/25	
o-Xylene	ND	0.0250	1	10/31/25	11/04/25	
p,m-Xylene	ND	0.0500	1	10/31/25	11/04/25	
Total Xylenes	ND	0.0250	1	10/31/25	11/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/25	11/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		106 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2544154
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>						
		107 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2545058
Chloride	9030	200	10	11/04/25	11/04/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/5/2025 5:08:54PM
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BH25-18 4'

E510382-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Benzene	ND	0.0250	1	10/31/25	11/04/25	
Ethylbenzene	ND	0.0250	1	10/31/25	11/04/25	
Toluene	ND	0.0250	1	10/31/25	11/04/25	
o-Xylene	ND	0.0250	1	10/31/25	11/04/25	
p,m-Xylene	ND	0.0500	1	10/31/25	11/04/25	
Total Xylenes	ND	0.0250	1	10/31/25	11/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/25	11/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2544154
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2545058
Chloride	7260	100	5	11/04/25	11/04/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/5/2025 5:08:54PM
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BH25-19 0'

E510382-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Benzene	ND	0.0250	1	10/31/25	11/04/25	
Ethylbenzene	ND	0.0250	1	10/31/25	11/04/25	
Toluene	ND	0.0250	1	10/31/25	11/04/25	
o-Xylene	ND	0.0250	1	10/31/25	11/04/25	
p,m-Xylene	ND	0.0500	1	10/31/25	11/04/25	
Total Xylenes	ND	0.0250	1	10/31/25	11/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/25	11/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2544154
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>		114 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2545058
Chloride	1760	20.0	1	11/04/25	11/04/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/5/2025 5:08:54PM
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BH25-19 2'

E510382-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Benzene	ND	0.0250	1	10/31/25	11/04/25	
Ethylbenzene	ND	0.0250	1	10/31/25	11/04/25	
Toluene	ND	0.0250	1	10/31/25	11/04/25	
o-Xylene	ND	0.0250	1	10/31/25	11/04/25	
p,m-Xylene	ND	0.0500	1	10/31/25	11/04/25	
Total Xylenes	ND	0.0250	1	10/31/25	11/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/25	11/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		103 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2544154
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>		113 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2545058
Chloride	4340	40.0	2	11/04/25	11/04/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/5/2025 5:08:54PM
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BH25-19 4'

E510382-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Benzene	ND	0.0250	1	10/31/25	11/04/25	
Ethylbenzene	ND	0.0250	1	10/31/25	11/04/25	
Toluene	ND	0.0250	1	10/31/25	11/04/25	
o-Xylene	ND	0.0250	1	10/31/25	11/04/25	
p,m-Xylene	ND	0.0500	1	10/31/25	11/04/25	
Total Xylenes	ND	0.0250	1	10/31/25	11/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/25	11/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2544154
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2545058
Chloride	3510	40.0	2	11/04/25	11/04/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/5/2025 5:08:54PM
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BH25-20 0'

E510382-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Benzene	ND	0.0250	1	10/31/25	11/04/25	
Ethylbenzene	ND	0.0250	1	10/31/25	11/04/25	
Toluene	ND	0.0250	1	10/31/25	11/04/25	
o-Xylene	ND	0.0250	1	10/31/25	11/04/25	
p,m-Xylene	ND	0.0500	1	10/31/25	11/04/25	
Total Xylenes	ND	0.0250	1	10/31/25	11/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/25	11/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		106 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2544154
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>						
		108 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2545058
Chloride	7200	100	5	11/04/25	11/04/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/5/2025 5:08:54PM
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BH25-20 2'

E510382-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Benzene	ND	0.0250	1	10/31/25	11/04/25	
Ethylbenzene	ND	0.0250	1	10/31/25	11/04/25	
Toluene	ND	0.0250	1	10/31/25	11/04/25	
o-Xylene	ND	0.0250	1	10/31/25	11/04/25	
p,m-Xylene	ND	0.0500	1	10/31/25	11/04/25	
Total Xylenes	ND	0.0250	1	10/31/25	11/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/25	11/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		108 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2544154
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>		110 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2545058
Chloride	5900	100	5	11/04/25	11/04/25	



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/5/2025 5:08:54PM
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BH25-20 4'

E510382-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Benzene	ND	0.0250	1	10/31/25	11/04/25	
Ethylbenzene	ND	0.0250	1	10/31/25	11/04/25	
Toluene	ND	0.0250	1	10/31/25	11/04/25	
o-Xylene	ND	0.0250	1	10/31/25	11/04/25	
p,m-Xylene	ND	0.0500	1	10/31/25	11/04/25	
Total Xylenes	ND	0.0250	1	10/31/25	11/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2544158
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/25	11/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	10/31/25	11/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2544154
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/25	11/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/25	11/01/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	10/31/25	11/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2545058
Chloride	3170	40.0	2	11/04/25	11/04/25	



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/5/2025 5:08:54PM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2544158-BLK1)

Prepared: 10/31/25 Analyzed: 11/03/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.36		8.00		105	70-130			

LCS (2544158-BS1)

Prepared: 10/31/25 Analyzed: 11/03/25

Benzene	4.20	0.0250	5.00		84.0	70-130			
Ethylbenzene	4.17	0.0250	5.00		83.4	70-130			
Toluene	4.25	0.0250	5.00		84.9	70-130			
o-Xylene	4.26	0.0250	5.00		85.2	70-130			
p,m-Xylene	8.57	0.0500	10.0		85.7	70-130			
Total Xylenes	12.8	0.0250	15.0		85.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.11		8.00		101	70-130			

Matrix Spike (2544158-MS1)

Source: E510382-05

Prepared: 10/31/25 Analyzed: 11/03/25

Benzene	4.36	0.0250	5.00	ND	87.1	70-130			
Ethylbenzene	4.32	0.0250	5.00	ND	86.4	70-130			
Toluene	4.41	0.0250	5.00	ND	88.1	70-130			
o-Xylene	4.41	0.0250	5.00	ND	88.2	70-130			
p,m-Xylene	8.86	0.0500	10.0	ND	88.6	70-130			
Total Xylenes	13.3	0.0250	15.0	ND	88.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.47		8.00		106	70-130			

Matrix Spike Dup (2544158-MSD1)

Source: E510382-05

Prepared: 10/31/25 Analyzed: 11/04/25

Benzene	3.88	0.0250	5.00	ND	77.6	70-130	11.6	27	
Ethylbenzene	3.85	0.0250	5.00	ND	77.0	70-130	11.5	26	
Toluene	3.92	0.0250	5.00	ND	78.5	70-130	11.5	20	
o-Xylene	3.98	0.0250	5.00	ND	79.5	70-130	10.4	25	
p,m-Xylene	7.92	0.0500	10.0	ND	79.2	70-130	11.2	23	
Total Xylenes	11.9	0.0250	15.0	ND	79.3	70-130	10.9	26	
Surrogate: 4-Bromochlorobenzene-PID	8.23		8.00		103	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/5/2025 5:08:54PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2544158-BLK1)

Prepared: 10/31/25 Analyzed: 11/03/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.66		8.00		108	70-130			

LCS (2544158-BS2)

Prepared: 10/31/25 Analyzed: 11/03/25

Gasoline Range Organics (C6-C10)	45.3	20.0	50.0		90.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.40		8.00		105	70-130			

Matrix Spike (2544158-MS2)

Source: E510382-05

Prepared: 10/31/25 Analyzed: 11/04/25

Gasoline Range Organics (C6-C10)	46.0	20.0	50.0	ND	92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.52		8.00		106	70-130			

Matrix Spike Dup (2544158-MSD2)

Source: E510382-05

Prepared: 10/31/25 Analyzed: 11/04/25

Gasoline Range Organics (C6-C10)	47.7	20.0	50.0	ND	95.4	70-130	3.61	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.82		8.00		110	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/5/2025 5:08:54PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2544154-BLK1)

Prepared: 10/31/25 Analyzed: 10/31/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	53.0		50.0		106	61-141			

LCS (2544154-BS1)

Prepared: 10/31/25 Analyzed: 10/31/25

Diesel Range Organics (C10-C28)	296	25.0	250		118	66-144			
Surrogate: <i>n</i> -Nonane	52.8		50.0		106	61-141			

Matrix Spike (2544154-MS1)

Source: E510382-11

Prepared: 10/31/25 Analyzed: 10/31/25

Diesel Range Organics (C10-C28)	315	25.0	250	ND	126	56-156			
Surrogate: <i>n</i> -Nonane	52.6		50.0		105	61-141			

Matrix Spike Dup (2544154-MSD1)

Source: E510382-11

Prepared: 10/31/25 Analyzed: 10/31/25

Diesel Range Organics (C10-C28)	307	25.0	250	ND	123	56-156	2.58	20	
Surrogate: <i>n</i> -Nonane	53.3		50.0		107	61-141			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/5/2025 5:08:54PM
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Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2545058-BLK1)

Prepared: 11/04/25 Analyzed: 11/04/25

Chloride ND 20.0

LCS (2545058-BS1)

Prepared: 11/04/25 Analyzed: 11/04/25

Chloride 252 20.0 250 101 90-110

Matrix Spike (2545058-MS1)

Source: E510382-12

Prepared: 11/04/25 Analyzed: 11/04/25

Chloride 1980 20.0 250 1760 90.7 80-120

Matrix Spike Dup (2545058-MSD1)

Source: E510382-12

Prepared: 11/04/25 Analyzed: 11/04/25

Chloride 1970 20.0 250 1760 85.0 80-120 0.722 20

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/05/25 17:08
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client Information				Invoice Information				Lab Use Only				TAT				State											
Client: Vertex (bill direct to Jonah Energy LLC)				Company: Jonah Energy LLC				Lab WO# E 5103 82 E 5108		Job Number 25013-001		1D		2D		3D		Std		NM		CO		UT		TX	
Project Name: Jackson Unit 20 Disposal Line				Address: 370 17th St.				E 5108		25013-001								X									
Project Manager: Chance Dixon				City, State, Zip: Denver, CO 80202				cm 10/31/25																			
Project Number: 25A-04596				Phone: 970-222-6263																							
City, State, Zip: Carlsbad NM, 88220				Email: leighann.kollath@jonahenergy.com																							
Phone: 575-988-1472				Miscellaneous: Direct bill to Jonah Energy																							
Email: cdixon@vertexresource.com				ATTN: Leigh Ann Kollath																							

Sample Information											Analysis and Method								EPA Program		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA				
8:40	10.29.2025	Soil	1	BH25-15 0'		1	X	X	X		X							3.5			
8:42	10.29.2025	Soil	1	BH25-15 2'		2	X	X	X		X							5.3			
8:55	10.29.2025	Soil	1	BH25-15 4'		3	X	X	X		X							4.9			
12:50	10.29.2025	Soil	1	BH25-16 0'		4	X	X	X		X							1.7			
12:53	10.29.2025	Soil	1	BH25-16 2'		5	X	X	X		X							5.4			
12:57	10.29.2025	Soil	1	BH25-16 4'		6	X	X	X		X							1.3			
14:35	10.29.2025	Soil	1	BH25-17 0'		7	X	X	X		X							5.0			
14:38	10.29.2025	Soil	1	BH25-17 2'		8	X	X	X		X							5.4			
11:50	10.29.2025	Soil	1	BH25-18 0'		9	X	X	X		X							5.4			
11:53	10.29.2025	Soil	1	BH25-18 2'		10	X	X	X		X							5.2			

Additional Instructions: Direct bill to Jonah Energy LLC ATTN: Leigh Ann Kollath. Incident nAPP2523053945.
 Please email final report to cdixon@vertexresource.com, permian@vertexresource.com, lpullman@vertexresource.com, aharris@vertexresource.com, ALudvik@vertexresource.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
 Sampled by: L Pullman

Relinquished by: (Signature) <i>L Pullman</i>	Date 10-30-25	Time 07:00	Received by: (Signature) <i>Michelle Gonzalez</i>	Date 10-30-25	Time 0700	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C _____
Relinquished by: (Signature) <i>Michelle Gonzalez</i>	Date 10-30-25	Time 1445	Received by: (Signature) <i>Nathan Gonzalez</i>	Date 10-30-25	Time 1445	
Relinquished by: (Signature) <i>Nathan Gonzalez</i>	Date 10-30-25	Time 1907	Received by: (Signature) <i>Karla Schum</i>	Date 10/30/25	Time 1907	
Relinquished by: (Signature) <i>Karady</i>	Date 10/30/25	Time 2338	Received by: (Signature) <i>Cault Mar</i>	Date 10/31/25	Time 800	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____
 Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this CDC. The liability of the laboratory is limited to the amount paid for on the report.



Released to Imaging: 1/15/2026 7:15:03 AM

Page 29 of 30

Received by OCD: 1/14/2026 8:06:56 AM

Client Information				Invoice Information				Lab Use Only				TAT				State				
Client: Vertex (bill direct to Jonah Energy LLC)				Company: Jonah Energy LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX	
Project Name: Jackson Unit 20 Disposal Line				Address: 370 17th St.				E 510382		25013-0001					X					
Project Manager: Chance Dixon				City, State, Zip: Denver, CO 80202																
Project Number: 25A-04596				Phone: 970-222-6263																
City, State, Zip: Carlsbad NM, 88220				Email: leighann.kollath@jonahenergy.com																
Phone: 575-988-1472				Miscellaneous: Direct bill to Jonah Energy																
Email: cdixon@vertexresource.com				ATTN: Leigh Ann Kollath																

Sample Information							Analysis and Method								EPA Program		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
12:00	10.29.2025	Soil	1	BH25-18 4'		11	X	X	X		X						5.0
12:08	10.29.2025	Soil	1	BH25-19 0'		12	X	X	X		X						5.4
12:10	10.29.2025	Soil	1	BH25-19 2'		13	X	X	X		X						4.3
12:13	10.29.2025	Soil	1	BH25-19 4'		14	X	X	X		X						5.4
12:23	10.29.2025	Soil	1	BH25-20 0'		15	X	X	X		X						2.8
12:25	10.29.2025	Soil	1	BH25-20 2'		16	X	X	X		X						5.4
12:33	10.29.2025	Soil	1	BH25-20 4'		17	X	X	X		X						1.7

Additional Instructions: Direct bill to Jonah Energy LLC ATTN: Leigh Ann Kollath. Incident nAPP2523053945.
 Please email final report to cdixon@vertexresource.com, permian@vertexresource.com, lpullman@vertexresource.com, aharris@vertexresource.com, ALudvik@vertexresource.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: L. Pullman

Relinquished by: (Signature) <i>L. Pullman</i>	Date 10-30-2025	Time 07:00	Received by: (Signature) <i>Michelle Gonzales</i>	Date 10-30-25	Time 0700	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C _____
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date 10-30-25	Time 1445	Received by: (Signature) <i>Nathan Gonzales</i>	Date 10-30-25	Time 1445	
Relinquished by: (Signature) <i>Nathan Gonzales</i>	Date 10-30-25	Time 1407	Received by: (Signature) <i>Ramon Johnny</i>	Date 10-30-25	Time 1907	
Relinquished by: (Signature) <i>Kara Sims</i>	Date 10/30/25	Time 0338	Received by: (Signature) <i>Caitie Marc</i>	Date 10-31-25	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



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Envirotech Analytical Laboratory

Printed: 10/31/2025 10:01:14AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Vertex Resource Services Inc. Date Received: 10/31/25 08:00 Work Order ID: E510382
Phone: (575) 748-0176 Date Logged In: 10/30/25 16:19 Logged In By: Caitlin Mars
Email: cdixon@vertexresource.com Due Date: 11/06/25 17:00 (4 day TAT)

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

- 7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? Yes

Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

- 14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

- 20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? Yes

Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

- 28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Empty box for client instruction.

Comments/Resolution

Large empty box for comments/resolution.

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Chance Dixon



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Vertex Resource Services Inc.

Project Name: Jackson Unit 20 Disposal Line

Work Order: E510395

Job Number: 25013-0001

Received: 11/3/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/7/25

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.



Date Reported: 11/7/25

Chance Dixon
3101 Boyd Drive
Carlsbad, NM 88220

Project Name: Jackson Unit 20 Disposal Line
Workorder: E510395
Date Received: 11/3/2025 7:00:00AM

Chance Dixon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/3/2025 7:00:00AM, under the Project Name: Jackson Unit 20 Disposal Line.

The analytical test results summarized in this report with the Project Name: Jackson Unit 20 Disposal Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

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Lynn Jarboe
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Client Representative
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/07/25 12:22
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH25-17 4'	E510395-01A	Soil	10/30/25	11/03/25	Glass Jar, 2 oz.



Sample Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/7/2025 12:22:20PM
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BH25-17 4'
E510395-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545002
Benzene	ND	0.0250	1	11/03/25	11/03/25	
Ethylbenzene	ND	0.0250	1	11/03/25	11/03/25	
Toluene	ND	0.0250	1	11/03/25	11/03/25	
o-Xylene	ND	0.0250	1	11/03/25	11/03/25	
p,m-Xylene	ND	0.0500	1	11/03/25	11/03/25	
Total Xylenes	ND	0.0250	1	11/03/25	11/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	11/03/25	11/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545002
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/03/25	11/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %	70-130	11/03/25	11/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2545034
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/25	11/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/25	11/04/25	
<i>Surrogate: n-Nonane</i>		95.1 %	61-141	11/03/25	11/04/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2545089
Chloride	7730	200	10	11/05/25	11/05/25	



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/7/2025 12:22:20PM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2545002-BLK1)

Prepared: 11/03/25 Analyzed: 11/03/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.95		8.00		99.4	70-130			

LCS (2545002-BS1)

Prepared: 11/03/25 Analyzed: 11/03/25

Benzene	5.67	0.0250	5.00		113	70-130			
Ethylbenzene	5.55	0.0250	5.00		111	70-130			
Toluene	5.68	0.0250	5.00		114	70-130			
o-Xylene	5.61	0.0250	5.00		112	70-130			
p,m-Xylene	11.3	0.0500	10.0		113	70-130			
Total Xylenes	17.0	0.0250	15.0		113	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.21		8.00		103	70-130			

Matrix Spike (2545002-MS1)

Source: E510376-01

Prepared: 11/03/25 Analyzed: 11/03/25

Benzene	5.14	0.0250	5.00	ND	103	70-130			
Ethylbenzene	5.04	0.0250	5.00	ND	101	70-130			
Toluene	5.15	0.0250	5.00	ND	103	70-130			
o-Xylene	5.09	0.0250	5.00	ND	102	70-130			
p,m-Xylene	10.3	0.0500	10.0	ND	103	70-130			
Total Xylenes	15.4	0.0250	15.0	ND	103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.23		8.00		103	70-130			

Matrix Spike Dup (2545002-MSD1)

Source: E510376-01

Prepared: 11/03/25 Analyzed: 11/03/25

Benzene	4.53	0.0250	5.00	ND	90.5	70-130	12.6	27	
Ethylbenzene	4.45	0.0250	5.00	ND	89.0	70-130	12.5	26	
Toluene	4.54	0.0250	5.00	ND	90.8	70-130	12.6	20	
o-Xylene	4.49	0.0250	5.00	ND	89.9	70-130	12.5	25	
p,m-Xylene	9.11	0.0500	10.0	ND	91.1	70-130	12.3	23	
Total Xylenes	13.6	0.0250	15.0	ND	90.7	70-130	12.4	26	
Surrogate: 4-Bromochlorobenzene-PID	8.21		8.00		103	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/7/2025 12:22:20PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2545002-BLK1)

Prepared: 11/03/25 Analyzed: 11/03/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.57		8.00		107	70-130			

LCS (2545002-BS2)

Prepared: 11/03/25 Analyzed: 11/03/25

Gasoline Range Organics (C6-C10)	57.7	20.0	50.0		115	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.73		8.00		109	70-130			

Matrix Spike (2545002-MS2)

Source: E510376-01

Prepared: 11/03/25 Analyzed: 11/03/25

Gasoline Range Organics (C6-C10)	57.2	20.0	50.0	ND	114	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.53		8.00		107	70-130			

Matrix Spike Dup (2545002-MSD2)

Source: E510376-01

Prepared: 11/03/25 Analyzed: 11/03/25

Gasoline Range Organics (C6-C10)	53.5	20.0	50.0	ND	107	70-130	6.72	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.37		8.00		105	70-130			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/7/2025 12:22:20PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2545034-BLK1)

Prepared: 11/03/25 Analyzed: 11/04/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	46.7		50.0		93.4	61-141			

LCS (2545034-BS1)

Prepared: 11/03/25 Analyzed: 11/04/25

Diesel Range Organics (C10-C28)	257	25.0	250		103	66-144			
Surrogate: <i>n</i> -Nonane	47.5		50.0		95.0	61-141			

Matrix Spike (2545034-MS1)

Source: E510390-24

Prepared: 11/03/25 Analyzed: 11/04/25

Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	56-156			
Surrogate: <i>n</i> -Nonane	51.2		50.0		102	61-141			

Matrix Spike Dup (2545034-MSD1)

Source: E510390-24

Prepared: 11/03/25 Analyzed: 11/04/25

Diesel Range Organics (C10-C28)	291	25.0	250	ND	116	56-156	5.03	20	
Surrogate: <i>n</i> -Nonane	53.4		50.0		107	61-141			



QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/7/2025 12:22:20PM
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Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2545089-BLK1)

Prepared: 11/05/25 Analyzed: 11/05/25

Chloride ND 20.0

LCS (2545089-BS1)

Prepared: 11/05/25 Analyzed: 11/05/25

Chloride 252 20.0 250 101 90-110

Matrix Spike (2545089-MS1)

Source: E510396-03

Prepared: 11/05/25 Analyzed: 11/05/25

Chloride 549 200 250 295 102 80-120

Matrix Spike Dup (2545089-MSD1)

Source: E510396-03

Prepared: 11/05/25 Analyzed: 11/05/25

Chloride 545 200 250 295 100 80-120 0.673 20

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: Jackson Unit 20 Disposal Line Project Number: 25013-0001 Project Manager: Chance Dixon	Reported: 11/07/25 12:22
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Vertex (bill direct to Jonah Energy LLC)				Company: Jonah Energy LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: Jackson Unit 20 Disposal Line				Address: 370 17th St.				E510395		25013-0001					X				
Project Manager: Chance Dixon				City, State, Zip: Denver, CO 80202															
Project Number: 25A-04596				Phone: 970-222-6263															
City, State, Zip: Carlsbad NM, 88220				Email: leighann.kollath@jonahenergy.com															
Phone: 575-988-1472				Miscellaneous: Direct bill to Jonah Energy															
Email: cdixon@vertexresource.com				ATTN: Leigh Ann Kollath															

Sample Information										Analysis and Method								EPA Program		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA			
11:55	10.30.2025	Soil	1	BH25-17 4'		1	X	X	X	X								3.2		

Additional Instructions: Direct bill to Jonah Energy LLC ATTN: Leigh Ann Kollath. Incident nAPP2523053945.
 Please email final report to cdixon@vertexresource.com, permian@vertexresource.com, lpullman@vertexresource.com, aharris@vertexresource.com, ALudvik@vertexresource.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
 Sampled by: L. Pullman

Relinquished by: (Signature) <i>L. Pullman</i>	Date 10-30-25	Time 07:00	Received by: (Signature) <i>Michelle Gonzales</i>	Date 10-31-25	Time 07:00	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C _____
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date 11-01-25	Time 1000	Received by: (Signature) <i>Nathan Gonzales</i>	Date 11/01/25	Time 1000	
Relinquished by: (Signature) <i>Nathan Gonzales</i>	Date 11-01-25	Time 1300	Received by: (Signature) <i>Rel Jye</i>	Date 11-1-25	Time 1300	
Relinquished by: (Signature) <i>Rel Jye</i>	Date 11-1-25	Time 19:15	Received by: (Signature) <i>Noe Sat</i>	Date 11-3-25	Time 0700	

Sample Matrix: S - Soil, S₁ - Solid, S_g - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Envirotech Analytical Laboratory

Printed: 11/3/2025 10:15:56AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Vertex Resource Services Inc. Date Received: 11/03/25 07:00 Work Order ID: E510395
Phone: (575) 748-0176 Date Logged In: 10/31/25 15:11 Logged In By: Caitlin Mars
Email: cdixon@vertexresource.com Due Date: 11/07/25 17:00 (4 day TAT)

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

- 7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? Yes

Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

- 14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

- 20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? Yes

Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

- 28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Empty box for Client Instruction

Comments/Resolution

Large empty box for Comments/Resolution

Signature of client authorizing changes to the COC or sample disposition.

Date

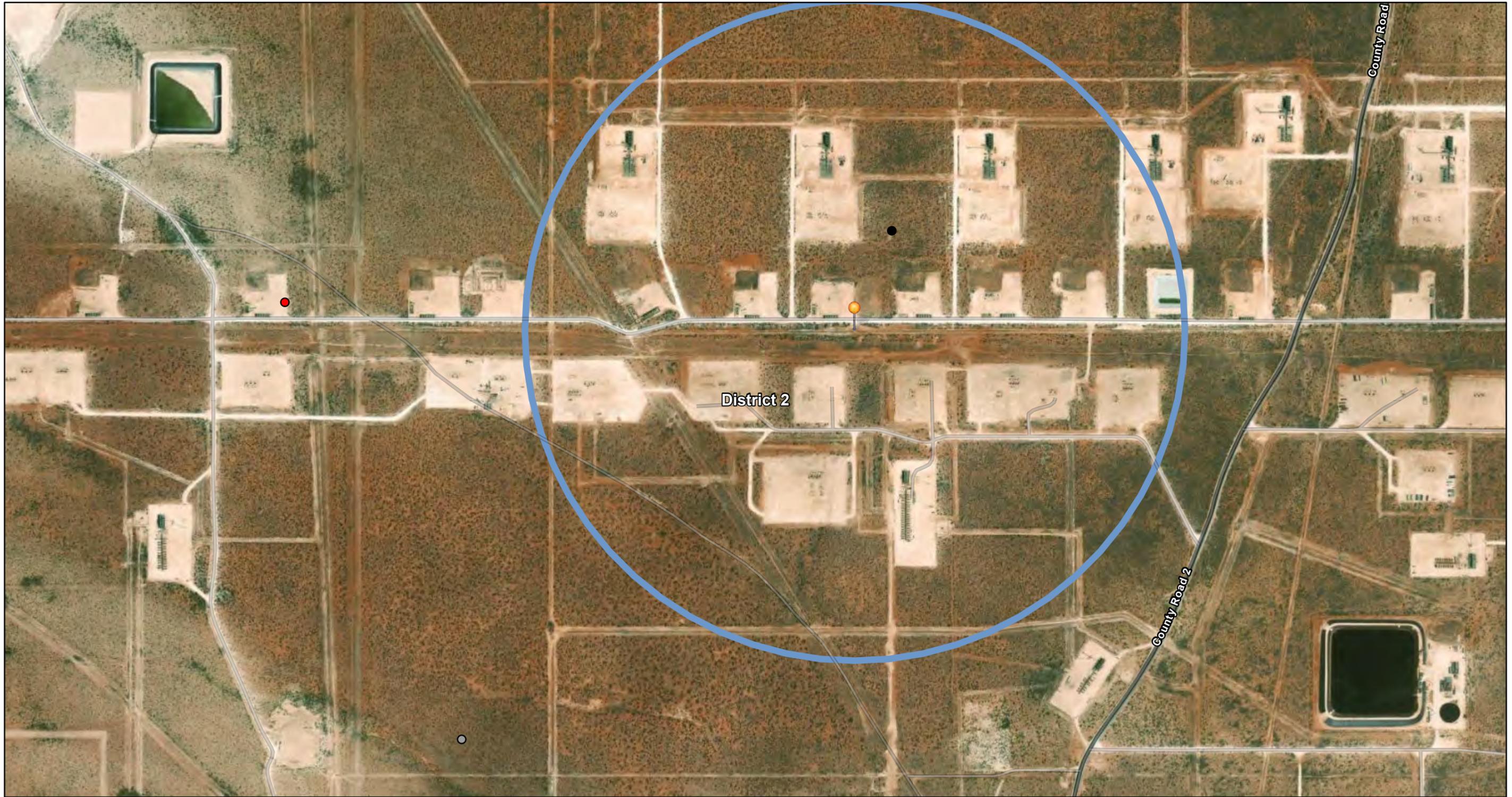


envirotech Inc.

ATTACHMENT 5

Closure Criteria Determination				
Site Name: Jackson Unit #20-28 Disposal Line				
Spill Coordinates: 32.195747, -103.577718		X: 634062	Y: 3563020	
Site Specific Conditions	Value	Unit	Reference	
1	Depth to Groundwater (nearest reference)	>100	feet	1
	Distance between release and nearest DTGW reference	846	feet	
		0.16	miles	
Date of nearest DTGW reference measurement		March 27, 2023		
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	2,330	feet	2
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	14,430	feet	3
4	Within 300 feet from an occupied residence, school, hospital, institution or church	28,542	feet	4
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	6,049	feet	5
	ii) Within 1000 feet of any fresh water well or spring	6,049	feet	5
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	feet	6
7	Within 300 feet of a wetland	6,614	feet	7
8	Within the area overlying a subsurface mine	No	feet	8
	Distance between release and nearest registered mine	109,000	feet	
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low	9
	Distance between release and nearest unstable area	38,368	feet	
10	Within a 100-year Floodplain	Undetermined	year	10
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	51,583	feet	
11	Soil Type	Fine sand, fine sandy loam, sandy clay loam		11
12	Ecological Classification	Loamy Sand		12
13	Geology	Eolian and Piedmont Deposits		13
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	>100'	<50' 51-100' >100'	

OSE POD 0.5 miles

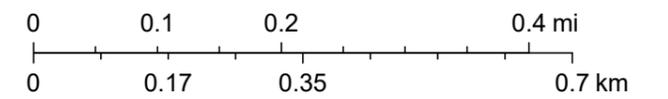


10/31/2025, 7:58:14 AM

1:10,839

GIS WATERS PODs OSE District Boundary

High Resolution 30cm Imagery



● Inactive

World Imagery

Citations

● Plugged

Low Resolution 15m Imagery

2.4m Resolution Metadata

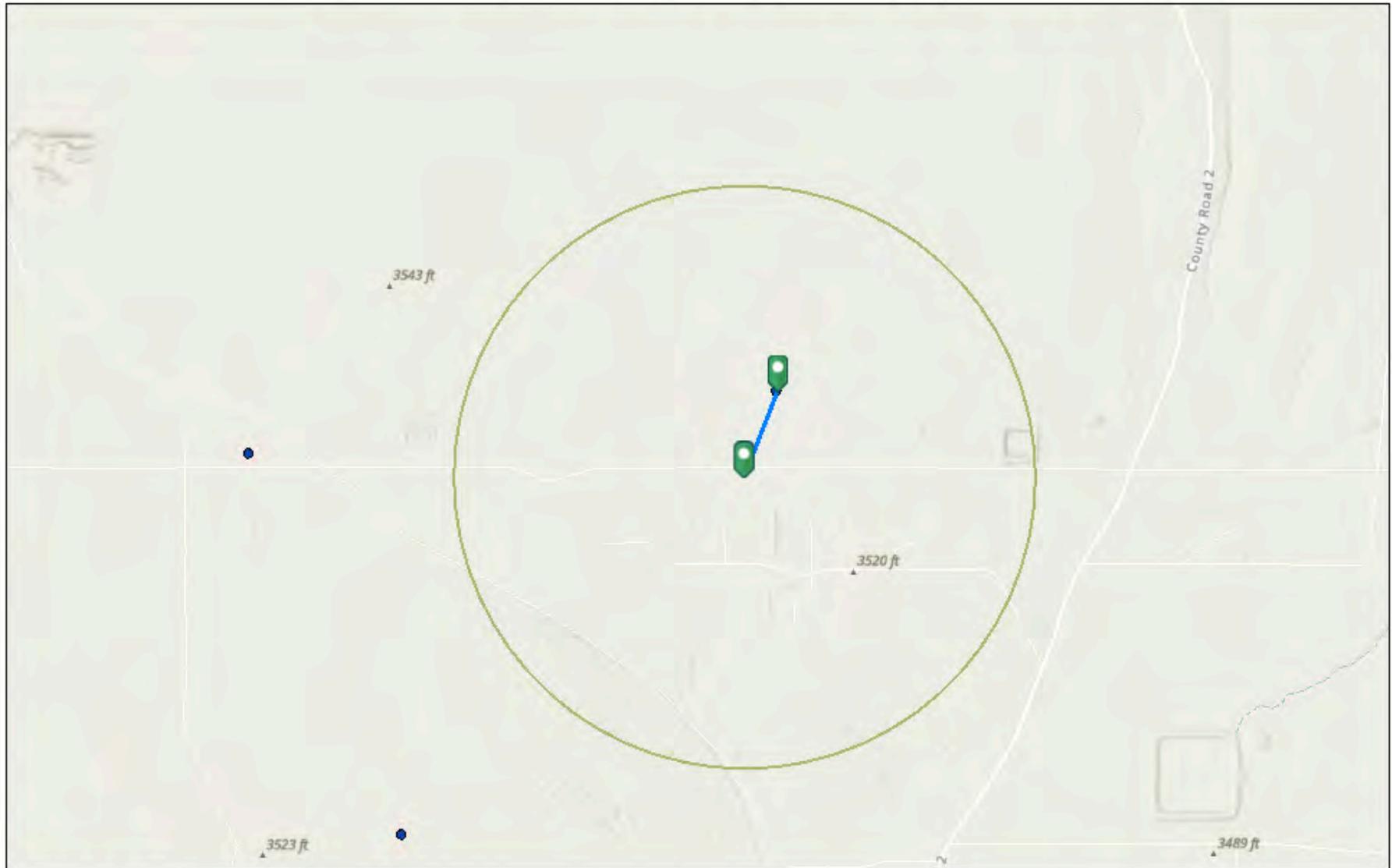
● Unknown

High Resolution 60cm Imagery



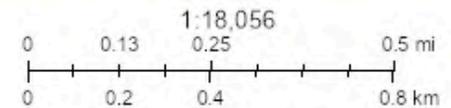
Vantor, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community

01. DTGW 853ft from Jackson Unit #20 Disposal Line



8/25/2025, 8:41:18 AM

-  Override 1
-  OSE Water PODs



Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community.

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. <http://nm-eminrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d01712306164de29fd2fb9f835ca75>. New Mexico Oil Conservation Division

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 smallest to largest)

(NAD83 UTM in meters)

(In feet)

(In feet)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
C_04708 POD1		CUB	LE	NW	SW	SE	21	24S	33E	634149.2	3563262.8		257	100		
C_02890		C	LE		NE	SE	29	24S	33E	633114.0	3562012.0 *		1383	500		
C_04844 POD1		CUB	LE	SW	SW	SE	20	24S	33E	632669.2	3563069.3		1393	105		
C_02430		CUB	LE	SW	SW	SW	16	24S	33E	633377.0	3564732.0 *		1843	643	415	228
C_02431		CUB	LE	SE	SE	SE	17	24S	33E	633175.0	3564728.0 *		1924	525	415	110
C_02432		CUB	LE	SE	SE	SE	17	24S	33E	633175.0	3564728.0 *		1924	640	415	225

Average Depth to Water: **415 feet**

Minimum Depth: **415 feet**

Maximum Depth: **415 feet**

Record Count: 6

UTM Filters (in meters):

Easting: 634062

Northing: 3563020

Radius: 002000

* 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.

10/31/25 6:53 AM MST

Water Column/Average Depth to Water

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Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
NA	C 04708 POD1	NW	SW	SE	21	24S	33E	634149.2	3563262.8	

* UTM location was derived from PLSS - see Help

Driller License:	1453	Driller Company:	HYDROTECH DRILLING
Driller Name:	JOE SKAGGS		
Drill Start Date:	2023-03-23	Drill Finish Date:	2023-03-27
Log File Date:	2023-06-23	PCW Rcv Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:	3.00	Depth Well:	100
		Depth Water:	

Casing Perforations:

Top	Bottom
80	100

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Point of Diversion Summary

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Water Right Summary



[get image list](#)

WR File Number: C 04708	Subbasin: CUB	Cross Reference:
Primary Purpose: MON MONITORING WELL		
Primary Status: PMT Permit		
Total Acres:	Subfile:	Header:
Total Diversion: 0.000	Cause/Case:	
Owner: SOUDER MILLER & ASSOCIATES	Owner Class: Agent	
Contact: HEATHER WOODS		
Owner: TAP ROCK OPERATING	Owner Class: User	
Contact: BILL RAMSEY		

Documents on File

(acre-feet per annum)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
get images	742706	EXPL	2023-02-16	PMT	APR	C 04708 POD1	T	0.000	0.000	

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map	Other Location Desc
C 04708 POD1	NA		NW	SW	SE	21	24S	33E	634149.2	3563262.8		

* UTM location was derived from PLSS - see Help

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10/31/25 7:00 AM MST

Water Rights Summary

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WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

RECEIVED

2023 JUN -8 AM 9:17

STATE ENGINEER OFFICE
LAS CRUCES, NEW MEXICO

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1		WELL TAG ID NO.		OSE FILE NO(S). C-04708		
	WELL OWNER NAME(S) TAP ROCK OPERATING				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS				CITY	STATE ZIP	
	WELL LOCATION (FROM GPS)	DEGREES 32.		MINUTES 11	SECONDS 52.6	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
		LATITUDE	LONGITUDE				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE 1/4 OF S21 R33E NMPM							

2. DRILLING & CASING INFORMATION	LICENSE NO. WD1453	NAME OF LICENSED DRILLER JOE SKAGGS			NAME OF WELL DRILLING COMPANY HYDROTECH DRILLING			
	DRILLING STARTED 03/23/2023	DRILLING ENDED 03/27/2023	DEPTH OF COMPLETED WELL (FT) 100	BORE HOLE DEPTH (FT) 100	DEPTH WATER FIRST ENCOUNTERED (FT) DRY HOLE			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 0	DATE STATIC MEASURED 04/03/2023		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	-2	80	8.75	Steel Blank	3.5 threaded collar	3	.250	
	80	100	8.75	Steel	3.5 threaded collar	3	.250	.188

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				

FOR OSE INTERNAL USE			WR-20 WELL RECORD & LOG (Version 01/28/2022)		
FILE NO	C-4708-POD 1	POD NO.	1	TRN NO.	742706
LOCATION	Town 24.33.21.134		WELL TAG ID NO.	PAGE 1 OF 2	



02. Watercourse 0.44mi from Jackson Unit



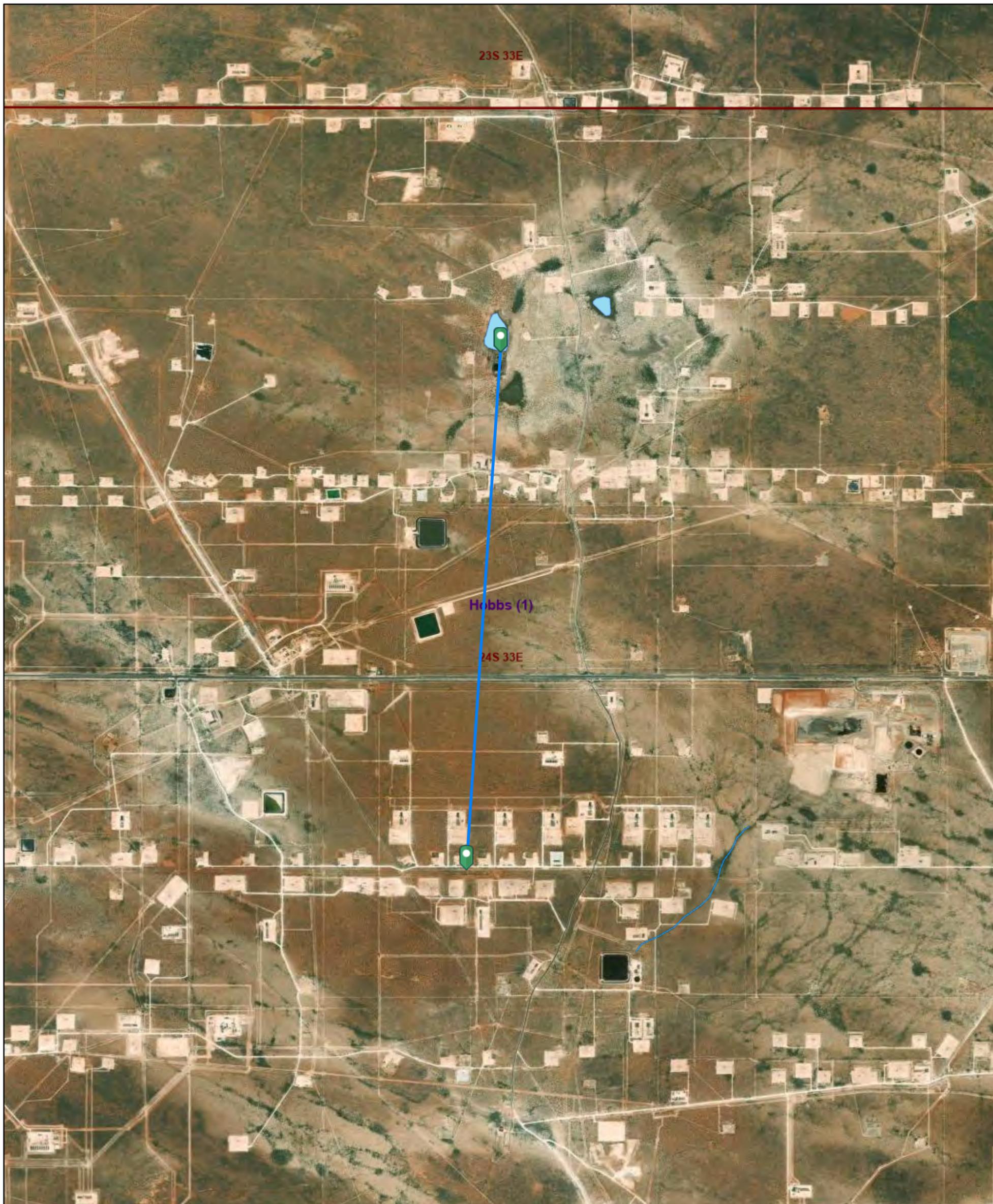
August 25, 2025

Wetlands

- Estuarine and Marine Deepwater
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

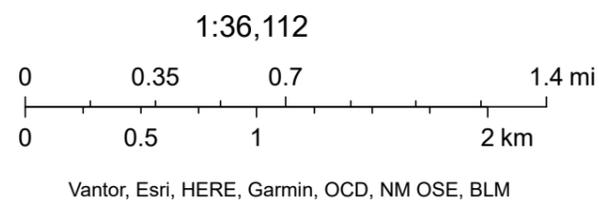
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Bell Lake, 14,430 feet



10/31/2025, 9:09:16 AM

- OSW Water Bodies
- OSE Streams
- OCD Districts
- PLSS Townships



04. Resident 5.48mi From Jackson Unit 20 Disposal Line

Legend

 Jackson Unit 20 Disposal Line

Write a description for your map.



 Residence

 32.195747, -103.577718



Active & Inactive Points of Diversion (with Ownership Information)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	(R=POD has been replaced and no longer serves this file, C=the file is closed)				(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)				(NAD83 UTM in meters)		Map	Distance (meters)
											q64	q16	q4	Sec	Tws	Range	X	Y				
C 04708	CUB	MON	0.000	TAP ROCK OPERATING	LE	C 04708 POD1	NA				NW	SW	SE	21	24S	33E	634149.2	3563262.8		258.0		
C 02890	C	STK	3.000	MARK MCCLOY	LE	C 02890						NE	SE	29	24S	33E	633114.0	3562012.0 *		1,383.8		
C 04844	CUB	MON	0.000	TAP ROCK RESOURCES	LE	C 04844 POD1	NA				SW	SW	SE	20	24S	33E	632669.2	3563069.3		1,393.7		
C 02430	CUB	COM	64.000	MARK MCCLOY	LE	C 02430				Shallow	SW	SW	SW	16	24S	33E	633377.0	3564732.0 *		1,844.0		
C 02431	CUB	COM	15.000	MARK MCCLOY	LE	C 02431				Shallow	SE	SE	SE	17	24S	33E	633175.0	3564728.0 *		1,924.6		
C 02432	CUB	COM	128.000	MARK T MCCLOY	LE	C 02432				Shallow	SE	SE	SE	17	24S	33E	633175.0	3564728.0 *		1,924.6		

Record Count: 6

Filters Applied:

UTM Filters (in meters):

Easting: 634062
Northing: 3563020
Radius: 002000

Sorted By: Distance

* UTM location was derived from PLSS - see Help

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10/31/25 6:56 AM MST

Active & Inactive Points of Diversion

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Water Right Summary



[get image list](#)

WR File Number:	C 02890	Subbasin:	C	Cross Reference:	
Primary Purpose:	STK 72-12-1 LIVESTOCK WATERING				
Primary Status:	PMT Permit				
Total Acres:		Subfile:		Header:	
Total Diversion:	3.000	Cause/Case:			
Owner:	MARK MCCLOY	Owner Class:	Owner		

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map	Other Location Desc
C_02890			NE	SE	29	24S	33E	633114.0	3562012.0 *			

* UTM location was derived from PLSS - see Help

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10/31/25 7:13 AM MST

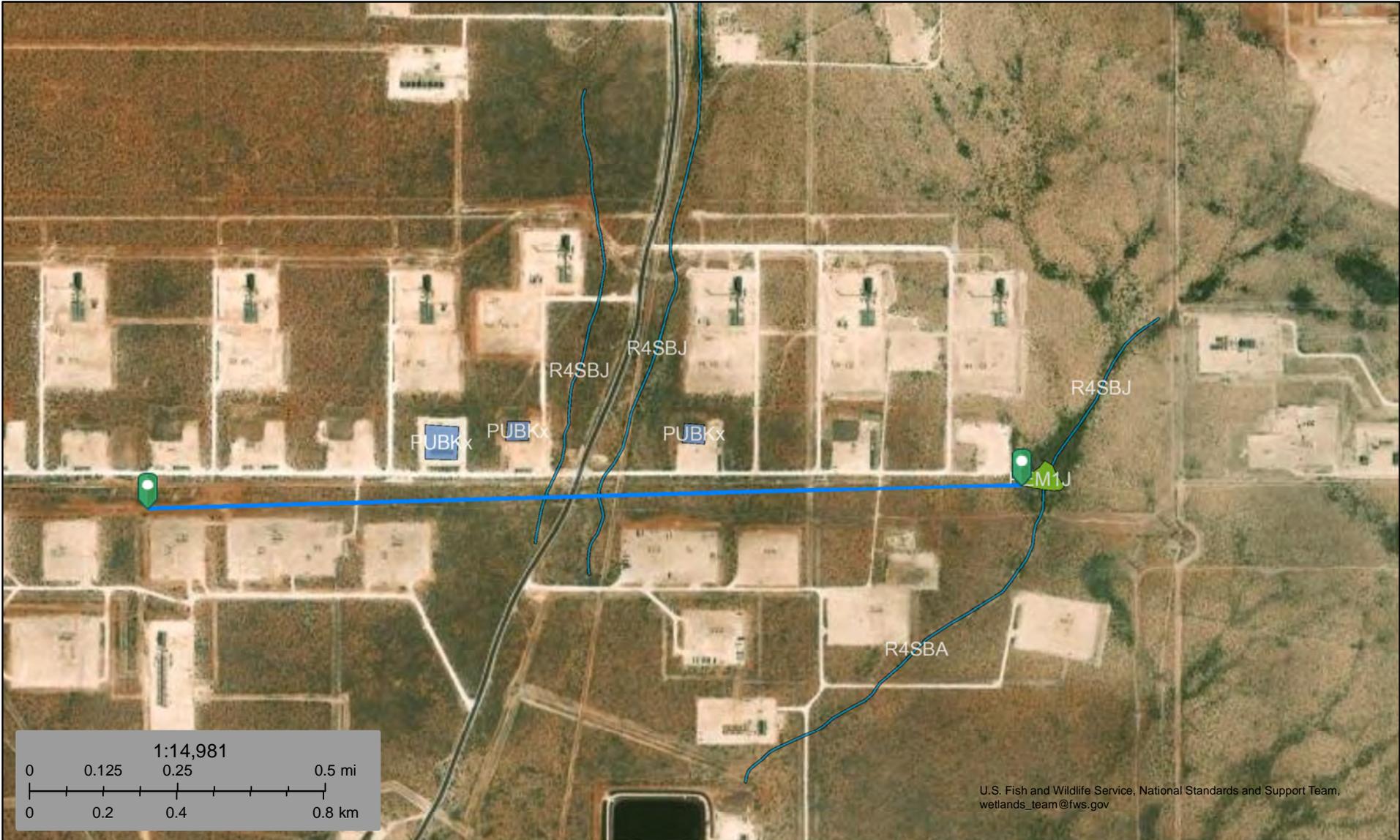
Water Rights Summary

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U.S. Fish and Wildlife Service
National Wetlands Inventory

07. Wetland 1.7mi from Jackson Unit 20 Di



U.S. Fish and Wildlife Service, National Standards and Support Team, wetlands_team@fws.gov

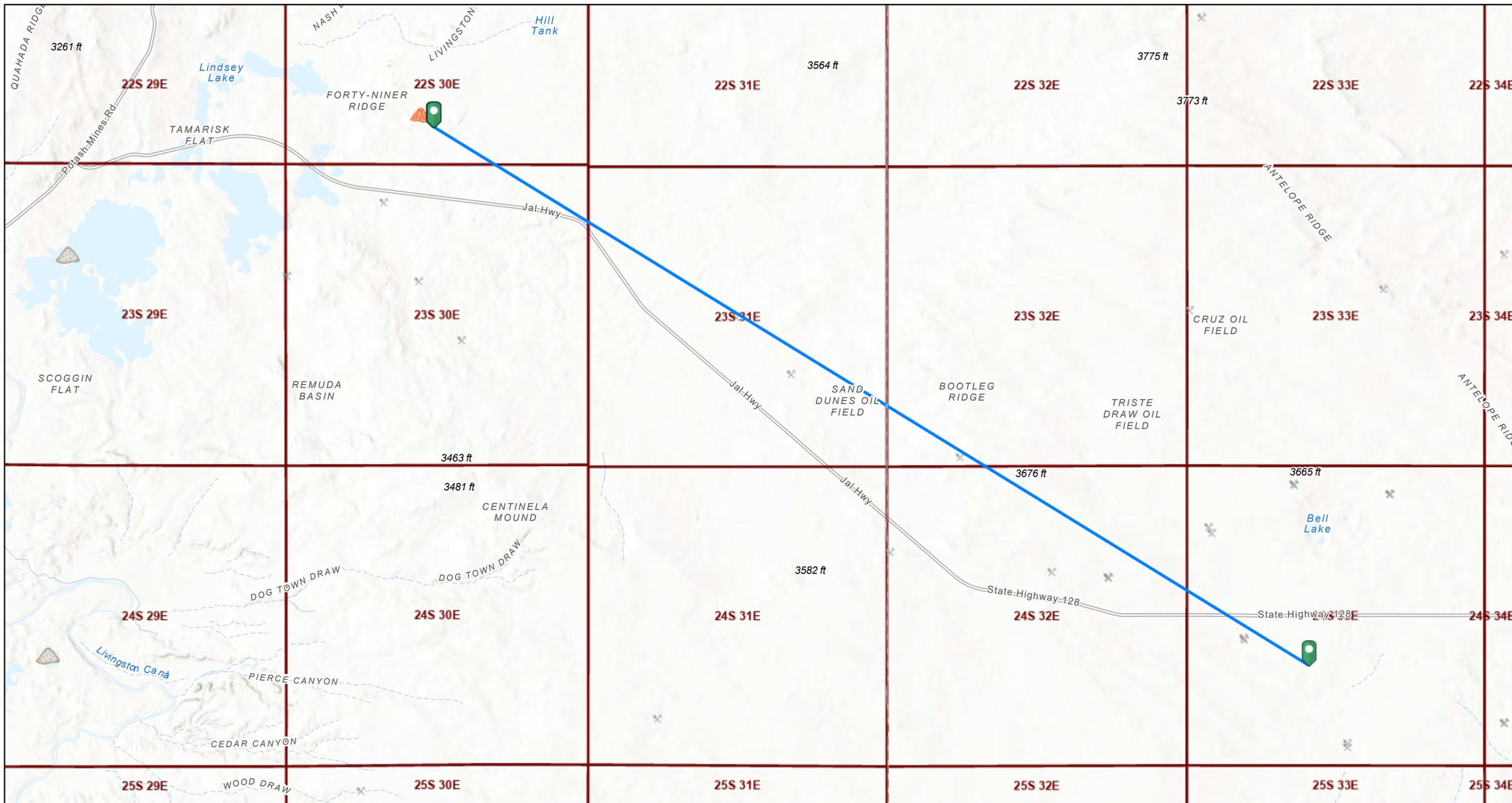
August 25, 2025

Wetlands

-  Estuarine and Marine Deepwater
-  Freshwater Emergent Wetland
-  Lake
-  Estuarine and Marine Wetland
-  Freshwater Forested/Shrub Wetland
-  Other
-  Freshwater Pond
-  Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Potash Mine, 109,000 feet



10/31/2025, 8:30:02 AM

1:144,448

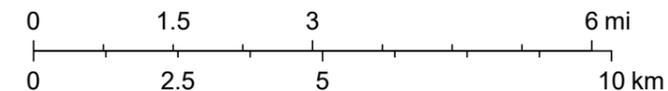
Registered Mines

- ✕ Aggregate, Stone etc.
- ✕ Aggregate, Stone etc.

✕ Aggregate, Stone etc. ⚙ Salt

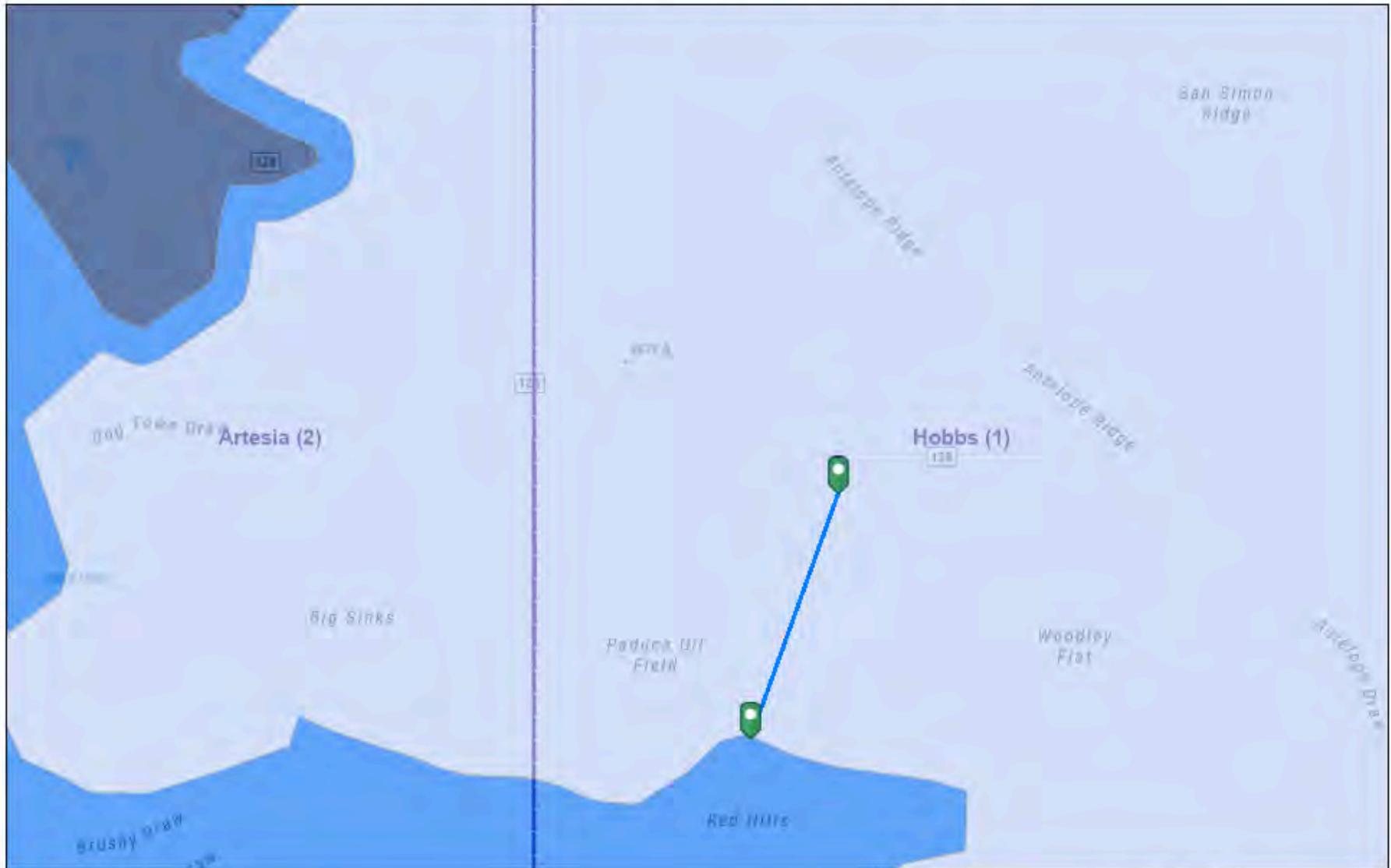
⚙ Potash

▭ PLSS Townships



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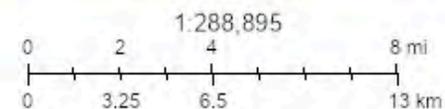
09. 7.24mi from the nearest unstable Karst



8/25/2025, 9:54:39 AM

Karst Occurrence Potential

- Medium
- Low
- High
- OCD Districts



BLM, OCD, New Mexico Tech, Esri, NASA, NGA, USGS, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map, <http://nm-emrhd.maps.arcgis.com/apps/webappviewer/index.html?id=4d01712306164de29fd2b9f8f35ca75>; New Mexico Oil Conservation Division

National Flood Hazard Layer FIRMMette



103°34'59"W 32°12'N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- SPECIAL FLOOD HAZARD AREAS**
 - Without Base Flood Elevation (BFE) Zone A, V, A99
 - With BFE or Depth Zone AE, AO, AH, VE, AR
 - Regulatory Floodway
- OTHER AREAS OF FLOOD HAZARD**
 - 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
 - Future Conditions 1% Annual Chance Flood Hazard Zone X
 - Area with Reduced Flood Risk due to Levee. See Notes. Zone X
 - Area with Flood Risk due to Levee Zone D
- OTHER AREAS**
 - NO SCREEN Area of Minimal Flood Hazard Zone X
 - Effective LOMRs
 - Area of Undetermined Flood Hazard Zone D
- GENERAL STRUCTURES**
 - Channel, Culvert, or Storm Sewer
 - Levee, Dike, or Floodwall
- OTHER FEATURES**
 - Cross Sections with 1% Annual Chance Water Surface Elevation
 - Coastal Transect
 - Base Flood Elevation Line (BFE)
 - Limit of Study
 - Jurisdiction Boundary
 - Coastal Transect Baseline
 - Profile Baseline
 - Hydrographic Feature
- MAP PANELS**
 - Digital Data Available
 - No Digital Data Available
 - Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/31/2025 at 3:13 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

0 250 500 1,000 1,500 2,000 Feet

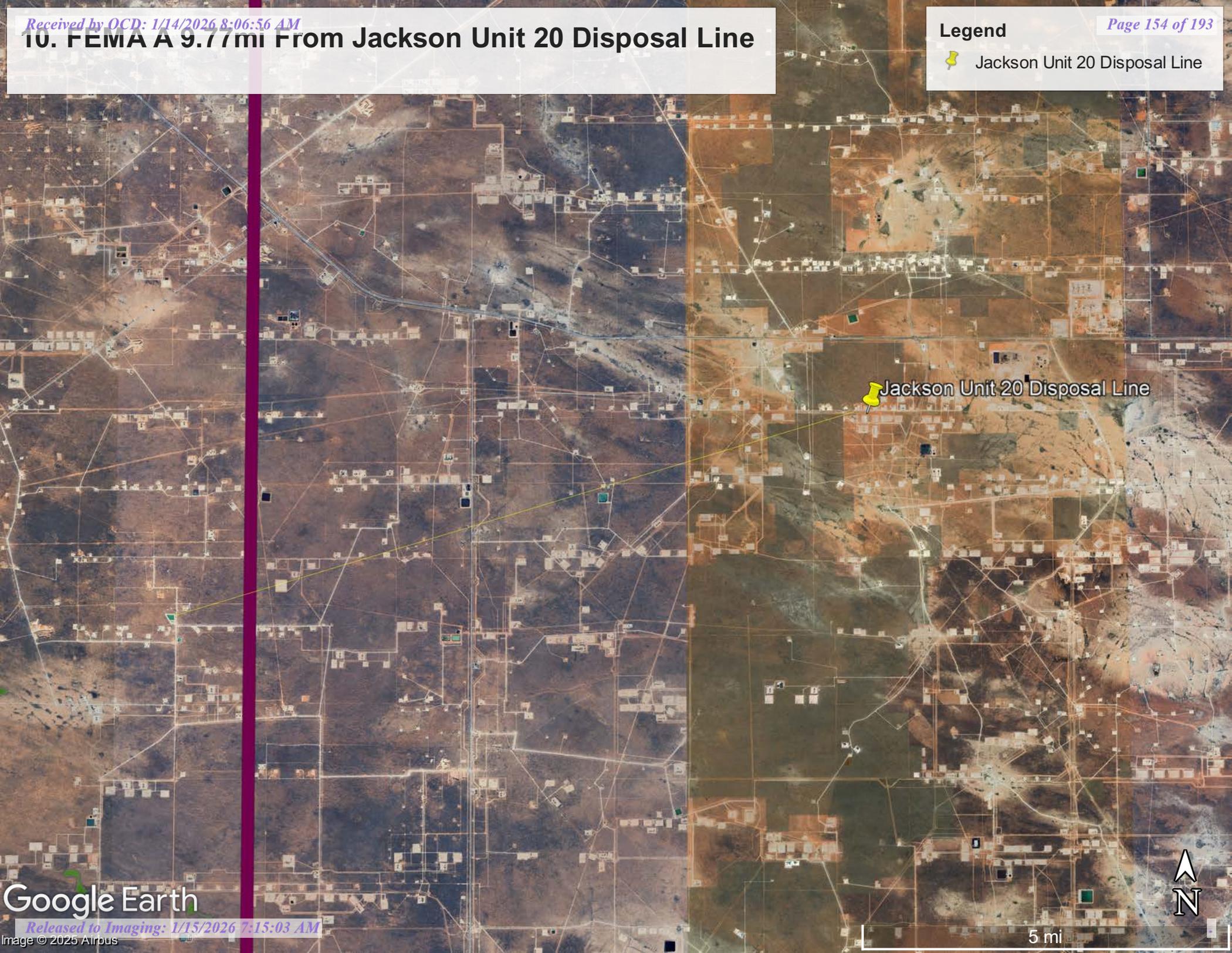
1:6,000

103°34'21"W 32°11'29"N

10. FEMA A 9.77mi From Jackson Unit 20 Disposal Line

Legend

- Jackson Unit 20 Disposal Line



Jackson Unit 20 Disposal Line





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

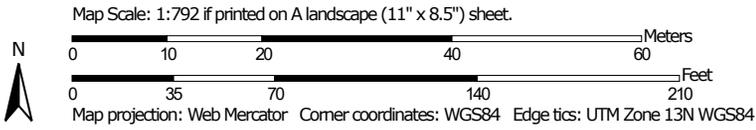


August 25, 2025

Custom Soil Resource Report Soil Map



Soil Map may not be valid at this scale.



Custom Soil Resource Report

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 21, Sep 3, 2024

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.

Custom Soil Resource Report

Lea County, New Mexico

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq
Elevation: 3,000 to 3,900 feet
Mean annual precipitation: 10 to 12 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

Pyote and similar soils: 46 percent
Maljamar and similar soils: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote**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

Typical profile

A - 0 to 30 inches: fine sand
Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 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 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Custom Soil Resource Report

Description of Maljamar

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

Typical profile

A - 0 to 24 inches: fine sand
Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
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 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent
Ecological site: R070BC022NM - Sandhills
Hydric soil rating: No

Ecological site R070BD003NM Loamy Sand

Accessed: 06/12/2023

General information

Provisional. A provisional ecological site description has undergone quality control and quality assurance review. It contains a working state and transition model and enough information to identify the ecological site.

Figure 1. Mapped extent

Areas shown in blue indicate the maximum mapped extent of this ecological site. Other ecological sites likely occur within the highlighted areas. It is also possible for this ecological site to occur outside of highlighted areas if detailed soil survey has not been completed or recently updated.

Associated sites

R070BD004NM	Sandy Sandy
R070BD005NM	Deep Sand Deep Sand

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site is on uplands, plains, dunes, fan piedmonts and in inter dunal areas. The parent material consists of mixed alluvium and or eolian sands derived from sedimentary rock. Slope range on this site range from 0 to 9 percent with the average of 5 percent.

Low stabilized dunes may occur occasionally on this site. Elevations range from 2,800 to 5,000 feet.

Table 2. Representative physiographic features

Landforms	(1) Fan piedmont (2) Alluvial fan (3) Dune
Elevation	2,800–5,000 ft
Slope	0–9%
Aspect	Aspect is not a significant factor

Climatic features

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity-short duration thunderstorms.

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes.

The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

The average frost-free season is 207 to 220 days. The last killing frost being late March or early April and the first killing frost being in later October or early November.

Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Strong winds blow from the southwest from January through June, which accelerates soil drying during a critical period for cool season plant growth.

Climate data was obtained from <http://www.wrcc.sage.dri.edu/summary/climsmnm.html> web site using 50% probability for freeze-free and frost-free seasons using 28.5 degrees F and 32.5 degrees F respectively.

Table 3. Representative climatic features

Frost-free period (average)	221 days
Freeze-free period (average)	240 days
Precipitation total (average)	13 in

Influencing water features

This site is not influenced from water from wetlands or streams.

Soil features

Soils are moderately deep or very deep. Surface textures are loamy fine sand, fine sandy loam, loamy very fine sand or gravelly sandy loam.

Subsurface is a loamy fine sand, coarse sandy loam, fine sandy loam or loam that averages less than 18 percent clay and less than 15 percent carbonates.

Substratum is a fine sandy loam or gravelly fine sandy loam with less than 15 percent gravel and with less than 40 percent calcium carbonate. Some layers high in lime or with caliche fragments may occur at depths of 20 to 30 inches.

These soils, if unprotected by plant cover and organic residue, become wind blown and low hummocks are formed.

Minimum and maximum values listed below represent the characteristic soils for this site.

Characteristic soils are:

Maljamar
Berino
Parjarito
Palomas
Wink
Pyote

Table 4. Representative soil features

Surface texture	(1) Fine sand (2) Fine sandy loam (3) Loamy fine sand
Family particle size	(1) Sandy
Drainage class	Well drained to somewhat excessively drained
Permeability class	Moderate to moderately rapid

Soil depth	40–72 in
Surface fragment cover <=3"	0–10%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	5–7 in
Calcium carbonate equivalent (0-40in)	3–40%
Electrical conductivity (0-40in)	2–4 mmhos/cm
Sodium adsorption ratio (0-40in)	0–2
Soil reaction (1:1 water) (0-40in)	6.6–8.4
Subsurface fragment volume <=3" (Depth not specified)	4–12%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

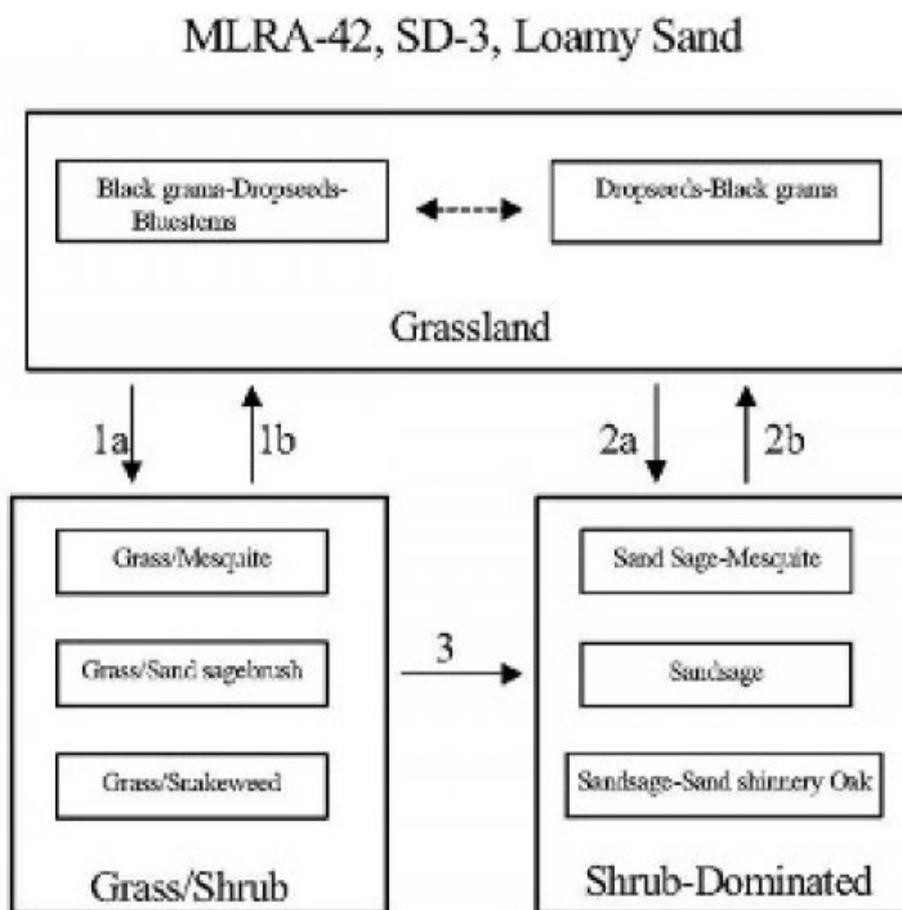
Overview

The Loamy Sand site intergrades with the Deep Sand and Sandy sites (SD-3). These sites can be differentiated by surface soil texture and depth to a textural change. Loamy Sand and Deep Sand sites have coarse textured (sands and loamy sand) surface soils while Sandy sites have moderately coarse textured (sandy loam and fine sandy loam) surfaces. Although Loamy Sand and Deep Sand sites have similar surface textures, the depth to a textural change is different—Loamy Sand sub-surface textures typically increase in clay at approximately 20 to 30 inches, and Deep Sand sites not until around 40 inches.

The historic plant community of Loamy Sand sites is dominated by black grama (*Bouteloua eriopoda*), dropseeds (*Sporobolus flexuosus*, *S. contractus*, *S. cryptandrus*), and bluestems (*Schizachyrium scoparium* and *Andropogon hallii*), with scattered shinnery oak (*Quercus havardii*) and sand sage (*Artemisia filifolia*). Perennial and annual forb abundance and distribution are dependent on precipitation. Litter and to a lesser extent, bare ground, are a significant proportion of ground cover while grasses compose the remainder. Decreases in black grama indicate a transition to either a grass/shrub or shrub-dominated state. The grass/shrub state is composed of grasses/honey mesquite (*Prosopis glandulosa*), grasses/broom snakeweed (*Gutierrezia sarothrae*), or grasses/sand sage. The shrub-dominated state occurs after a severe loss of grass cover and a prevalence of sand sage with secondary shinnery oak and mesquite. Heavy grazing intensity and/or drought are influential drivers in decreasing black grama and bluestems and subsequently increasing shrub cover, erosion, and bare patches. Historical fire suppression also encourages shrub pervasiveness and a competitive advantage over grass species (McPherson 1995). Brush and grazing management, however, may reverse grass/shrub and shrub-dominated states toward the grassland-dominated historic plant community.

State and transition model

Plant Communities and Transitional Pathways (diagram):



- 1a. Drought, over grazing, fire suppression.
- 1b. Brush control, prescribed grazing

- 2.a Severe loss of grass cover, fire suppression, erosion.
- 2b. Brush control, seeding, prescribed grazing.

- 3. Continued loss of grass cover, erosion.

**State 1
Historic Climax Plant Community**

**Community 1.1
Historic Climax Plant Community**

Grassland: The historic plant community is a uniformly distributed grassland dominated by black grama, dropseeds, and bluestems. Sand sage and shinnery oak are evenly dispersed throughout the grassland due to the coarse soil

surface texture. Perennial and annual forbs are common but their abundance and distribution are reflective of precipitation. Bluestems initially, followed by black grama, decrease with drought and heavy grazing intensity. Historical fire frequency is unknown but likely occurred enough to remove small shrubs to the competitive advantage of grass species. Fire suppression, drought conditions, and excessive grazing drive most grass species out of competition with shrub species. Diagnosis: Grassland dominated by black grama, dropseeds, and bluestems. Shrubs, such as sand sage, shinnery oak, and mesquite are dispersed throughout the grassland. Forbs are present and populations fluctuate with precipitation variability.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	442	833	1224
Forb	110	208	306
Shrub/Vine	98	184	270
Total	650	1225	1800

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%
Grass/grasslike foliar cover	28%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	50%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	22%

Figure 5. Plant community growth curve (percent production by month). NM2803, R042XC003NM-Loamy Sand-HCPC. SD-3 Loamy Sand - Warm season plant community .

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	3	5	10	10	25	30	12	5	0	0

**State 2
Grass/Shrub**

**Community 2.1
Grass/Shrub**



Grass/Shrub State: The grass/shrub state is dominated by communities of grasses/mesquite, grasses/snakeweed, or grasses/sand sage. Decreases in black grama and bluestem species lead to an increase in bare patches and mesquite which further competes with grass species. An increase of dropseeds and threeawns occurs. Grass distribution becomes more patchy with an absence or severe decrease in black grama and bluestems. Mesquite provides nitrogen and soil organic matter to co-dominant grasses (Ansley and Jacoby 1998, Ansley et al. 1998). Mesquite mortality when exposed to fire is low due to aggressive resprouting abilities. Herbicide application combined with subsequent prescribed fire may be more effective in mesquite reduction (Britton and Wright 1971). **Diagnosis:** This state is dominated by an increased abundance of communities including grass/mesquite, grass/snakeweed, or grass/sand sage. Dropseeds and threeawns have a patchy distribution. **Transition to Grass/Shrub State (1a):** The historic plant community begins to shift toward the grass/shrub state as drivers such as drought, fire suppression, interspecific competition, and excessive grazing contribute to alterations in soil properties and herbaceous cover. Cover loss and surface soil erosion are initial indicators of transition followed by a decrease in black grama with a subsequent increase of dropseeds, threeawns, mesquite, and snakeweed. Snakeweed has been documented to outcompete black grama especially under conditions of fire suppression and drought (McDaniel et al. 1984). Key indicators of approach to transition: • Loss of black grama cover • Surface soil erosion • Bare patch expansion • Increased dropseed/threeawn and mesquite, snakeweed, or sand sage abundances **Transition to Historic Plant Community (1b):** Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community.

State 3 Shrub Dominated

Community 3.1 Shrub Dominated

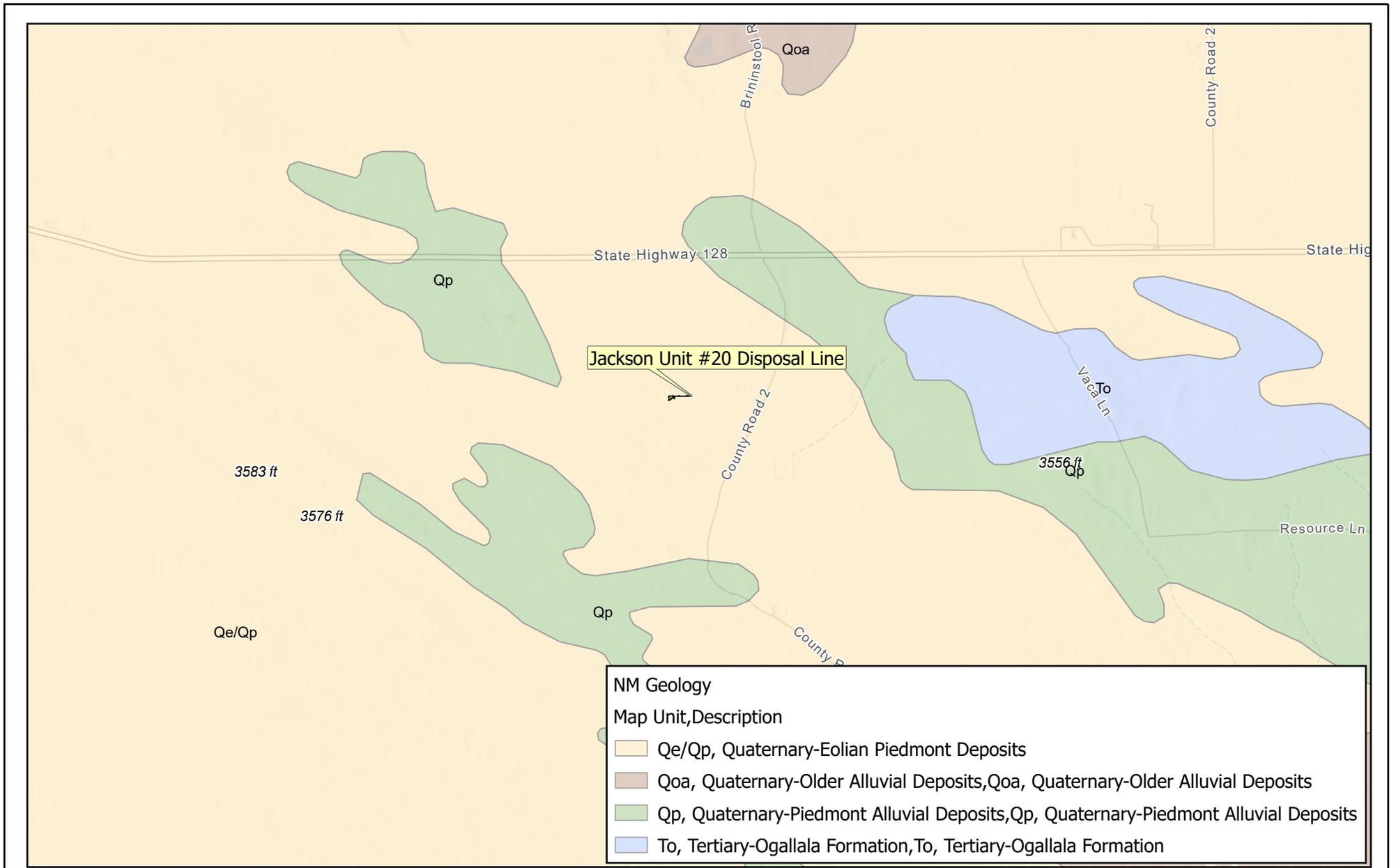
Shrub-Dominated State: The shrub-dominated state results from a severe loss of grass cover. This state's primary species is sand sage. Shinnery oak and mesquite also occur; however, grass cover is limited to intershrub distribution. Sand sage stabilizes light sandy soils from wind erosion, which enhances protected grass/forb cover (Davis and Bonham 1979). However, shinnery oak also responds to the sandy soils with dense stands due to an

aggressive rhizome system. Shinnery oak's extensive root system promotes competitive exclusion of grasses and forbs. Sand sage, shinnery oak, and mesquite can be controlled with herbicide (Herbel et al. 1979, Pettit 1986). Transition to Shrub-Dominated (2a): Severe loss of grass species with increased erosion and fire suppression will result in a transition to a shrub-dominated state with sand sage, Shin oak, and honey mesquite directly from the grassland-dominated state. Key indicators of approach to transition: • Severe loss of grass species cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite abundance Transition to Historic Plant Community (2b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community. In addition, seeding with native grass species will augment the transition to a grassland-dominated state. Transition to Shrub-Dominated (3): If the grass/shrub site continues to lose grass cover with soil erosion, the site will transition to a shrub-dominated state with sand sage, shinnery oak, and honey mesquite. Key indicators of approach to transition: • Continual loss of dropseeds/threawns cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite/dropseed/threawn and mesquite/snakeweed abundance

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass/Grasslike					
1	Warm Season			61–123	
	little bluestem	SCSC	<i>Schizachyrium scoparium</i>	61–123	–
2	Warm Season			37–61	
	sand bluestem	ANHA	<i>Andropogon hallii</i>	37–61	–
3	Warm Season			37–61	
	cane bluestem	BOBA3	<i>Bothriochloa barbinodis</i>	37–61	–
	silver bluestem	BOSA	<i>Bothriochloa saccharoides</i>	37–61	–
4	Warm Season			123–184	
	black grama	BOER4	<i>Bouteloua eriopoda</i>	123–184	–
	bush muhly	MUPO2	<i>Muhlenbergia porteri</i>	123–184	–
5	Warm Season			123–184	
	thin paspalum	PASE5	<i>Paspalum setaceum</i>	123–184	–
	plains bristlegrass	SEVU2	<i>Setaria vulpiseta</i>	123–184	–
	fringed signalgrass	URCI	<i>Urochloa ciliatissima</i>	123–184	–
6	Warm Season			123–184	
	spike dropseed	SPCO4	<i>Sporobolus contractus</i>	123–184	–
	sand dropseed	SPCR	<i>Sporobolus cryptandrus</i>	123–184	–
	mesa dropseed	SPFL2	<i>Sporobolus flexuosus</i>	123–184	–
7	Warm Season			61–123	
	hooded windmill grass	CHCU2	<i>Chloris cucullata</i>	61–123	–
	Arizona cottontop	DICA8	<i>Digitaria californica</i>	61–123	–
9	Other Perennial Grasses			37–61	
	Grass, perennial	2GP	<i>Grass, perennial</i>	37–61	–
Shrub/Vine					
8	Warm Season			37–61	
	New Mexico feathergrass	HENE5	<i>Hesperostipa neomexicana</i>	37–61	–
	giant dropseed	SPGI	<i>Sporobolus giganteus</i>	37–61	–
10	Shrub			61–123	



NM Geology	
Map Unit	Description
	Qe/Qp, Quaternary-Eolian Piedmont Deposits
	Qoa, Quaternary-Older Alluvial Deposits, Qoa, Quaternary-Older Alluvial Deposits
	Qp, Quaternary-Piedmont Alluvial Deposits, Qp, Quaternary-Piedmont Alluvial Deposits
	To, Tertiary-Ogallala Formation, To, Tertiary-Ogallala Formation

	<p>Map Center: Lat/Long: 32.19059°N, 103.574524°W</p> <p>Date: Sep 16/25</p> <p>NAD 1983 StatePlane New Mexico East FIPS 3001 Feet</p>		<p>Map Name</p> <p>Jackson Unit #20 Disposal Line</p>	<p>FIGURE:</p> <p>13</p> 
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Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes. Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

ATTACHMENT 6



NMSLO Cultural Resources Cover Sheet

Survey Complete Form

To: Cultural Resources Office, New Mexico State Land Office, Santa Fe, New Mexico

Re: Proposed "Jackson 20-28 Spill Remediation" project

Notification of Intent to Survey ID: N-20250916-002845

Cultural Resource Survey

NMCRIS Activity No.: 159564

Findings: Negative

Have avoidance and protection Measures been devised? Yes

Comments: No cultural resources were encountered, therefore clearance for the undertaking is recommended. If buried cultural deposits are found during construction, work should cease in that location, and the SLO archaeologist should be notified.

Submitted on: 9/23/2025 at 10:17 AM MDT

Proposed Project Details

Permitted Cultural Consultant Name: Lone Mountain Archaeological Services, Inc.

Permitted Cultural Consultant Phone Number:
(505) 881 - 0011

Permitted Cultural Consultant Email Address:
tcordua@lone-mtn.com

Jonah Energy has contracted Lone Mountain Archaeological Services, Inc. to conduct a cultural resources survey for a proposed project "Jackson 20-28 Spill Remediation" located on New Mexico State Trust Lands in T24S R33E S21, 28 in Lea. The survey is estimated to begin on 09/16/2025. The total acreage of the proposed project area is 8.00. The Lead Agency for this project is NMSLO.

NMSLO Administrative Use Only:

NMSLO Lease Number: _____

Lease Analyst: _____



Stephanie Garcia Richard
COMMISSIONER

State of New Mexico
Commissioner of Public Lands

310 OLD SANTA FE TRAIL
P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

COMMISSIONER'S OFFICE

Phone (505) 827-5760

Fax (505) 827-5766

www.nmstatelands.org

MEMORANDUM

TO: Jonah Energy

FROM: Megan Weldy, *Archaeologist/Conservationist*
(505) 827-5742
mweldy@nmslo.gov

SUBJECT: Jonah Energy
Remediation for: Jackson 20-28 Spill
Sections 21 and 28, T24S, R33E, N.M.P.M. Lea County

REFERENCE: NMSLO Cultural Properties Protection Rule (19.2.24 NMAC)

DATE: 10/15/2025

Thank you for your submission relating to the Proponent's proposed remediation activities at the Jackson 20-28 Spill location. An archaeological survey of the entire area of potential effect has been completed and no cultural properties were identified. Pursuant to NMSLO 19.2.24.8 (C) NMAC, remediation may proceed.

If any cultural materials are inadvertently encountered during surface disturbance, work must cease within 50 feet and the NMSLO Cultural Resources Office must be notified immediately by emailing (CROinfo@nmslo.gov). Please reach out if you have questions or need additional clarification.



Stephanie Garcia Richard
COMMISSIONER

State of New Mexico
Commissioner of Public Lands

310 OLD SANTA FE TRAIL
P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

COMMISSIONER'S OFFICE
Phone (505) 827-5760
Fax (505) 827-5766
www.nmstatelands.org

October 16, 2025

Jonah Energy LLC
370 17th St.
Denver, CO, 80202

Attn: Leigh Ann Kollath

Re: Right-of-Entry Permit No.: RE-7748 Jackson Unit 20 Disposal Line

Dear Applicant:

Enclosed is the completed captioned Right-of-Entry permit. If any corrections are necessary, please let us know and we will retype or amend this permit as necessary.

The New Mexico State Land Office requires you to notify any surface lessees that will be impacted by your project prior to construction.

If you have any questions, or if we may be of further assistance, please do not hesitate to contact Christopher Gutierrez at (505) 827-5773.

Sincerely,

James S. Bordegaray
Director, Commercial Resources Division

JSB/CLG



NEW MEXICO STATE LAND OFFICE
Commissioner of Public Lands
Stephanie Garcia Richard
New Mexico State Land Office Building
P.O. Box 1148, Santa Fe, NM 87504-1148

**RIGHT OF ENTRY PERMIT
CONTRACT NO. RE – 7748**

This Agreement is made and entered into between the COMMISSIONER OF PUBLIC LANDS (the “Commissioner”) and

Jonah Energy LLC
370 17th St.
Denver, CO, 80202

(“Permittee”). The parties agree as follows:

1. RIGHT OF ENTRY (“ROE”)

The Commissioner grants to Permittee, and its authorized representatives, employees, and contractors, permission to use the state trust lands identified below (the “Premises”), and ingress and egress to the Premises, for the sole purposes of (1) surveying/conducting an environmental investigation due to a produced water release on or adjacent to the site of the **Jackson Unit 20 Disposal Line (Incident # nAPP2523053945)** and (2) conducting surface reclamation activities, including removal of equipment and debris, and any required remediation per 19.15.29.12 NMAC.

The Premises are situated in the following location in Lea County, New Mexico:

Section	Township	Range	Subdivision	County	Longitude/Latitude
28	24S	33E	SWSE	Lea	32.1964264/-103.5761337

2. TERM AND TERMINATION

Right of entry is granted for a term of **180 days**, commencing on the execution date of this document by the Commissioner of Public Lands.

3. FEES

- \$ 50.00 Application Fee
- \$ 500.00 Permit Fee
- \$ 550.00 Total Fee

RE-7748

4. CONDITIONS OF USE

- A. The issuance of this ROE does not guarantee that any subsequent lease, permit, or any other instrument will be issued to Permittee for the Premises.
- B. No blading or widening of any roads that provide access to the Premises is permitted under this ROE.
- C. No sale of any material extracted from the Premises is allowed under this ROE.
- D. Permittee shall observe all applicable federal, state, and local laws and regulations.
- E. Permittee shall take all reasonable precautions to prevent and suppress forest, brush, and grass fires and prevent pollution of waters on or in the vicinity of the Premises.
- F. Permittee shall not block or disrupt roads or trails commonly in use.
- G. This ROE is subject to any and all easements and rights-of-way previously granted and now in force and effect.
- H. Permittee shall be responsible for repair and restitution for damage to any Premises or improvements as a result of activities related to the ROE.
- I. Prior to entering the Premises, Permittee must identify and contact any existing surface lessees. The grant of this ROE does not allow access across private lands.
- J. Permittee may utilize this ROE upon its execution for inspection of the Premises and to conduct any necessary tests or inspections. Permittee may not conduct remediation or reclamation work until it has submitted a written plan for such work, and received State Land Office approval.
- K. Personnel present on Premises: **Jonah Energy LLC personnel and authorized contractors.**
- L. Equipment and materials present on Premises: **Vehicles, heavy equipment, and associated equipment.**

5. SITE CONDITIONS

- A. No surface disturbance, other than soil tests, except as described in a reclamation plan submitted to and approved by the State Land Office.
- B. Access to the Premises shall be over existing roads.
- C. The natural environmental conditions that exist contemporaneously with this grant of ROE shall be preserved and protected. Permittee must follow all applicable environmental and cultural resource protection laws and regulations.

6. INDEMNITY

Permittee shall save, hold harmless, indemnify, and defend the State of New Mexico, the Commissioner and Commissioner’s employees, agents and contractors, in both their official and individual capacities, from any and all liability, claims, losses, damages, or expenses of any character or nature whatsoever, including but not limited to attorney’s fees, court costs, loss of land value or use, third party claims, penalties, or removal, remedial or restoration costs arising out of, or alleged to arise out of Permittee’s operations or presence on the Premises (or operations or presence of his representatives, employees, or contractors).

7. SURVIVAL OF TERMS

Permittee’s obligations regarding indemnity, site conditions, and compliance with applicable standards and laws, shall survive the termination, cancellation or relinquishment of this Agreement, and any cause of action of the Commissioner to enforce any right, liability, claim, loss, damage or expense under those paragraphs shall not be deemed to accrue until the Commissioner’s actual discovery of said right, liability, claim, loss, damage or expense.

8. NOTIFICATION

Permittee must notify the State Land Office immediately in the event Permittee or his representatives, employees, or contractors observe any spill, fire, or other emergency on the Premises, or if Permittee or his representatives, employees, or contractors experience any serious injury while on the Premises.

RE-7748

WITNESS the hands of PERMITTEE and COMMISSIONER on the day(s) and year entered below.

Craig Gleaton

DATE: 10/6/25

PERMITTEE SIGNATURE

Craig Gleaton

SVP – Gen. Counsel & Secretary

PERMITTEE NAME AND TITLE (PRINT)

SEAL:

BY: *Stephanie Garcia Richard*

Stephanie Garcia Richard
Commissioner of Public Lands

DATE: *10/15/2026*

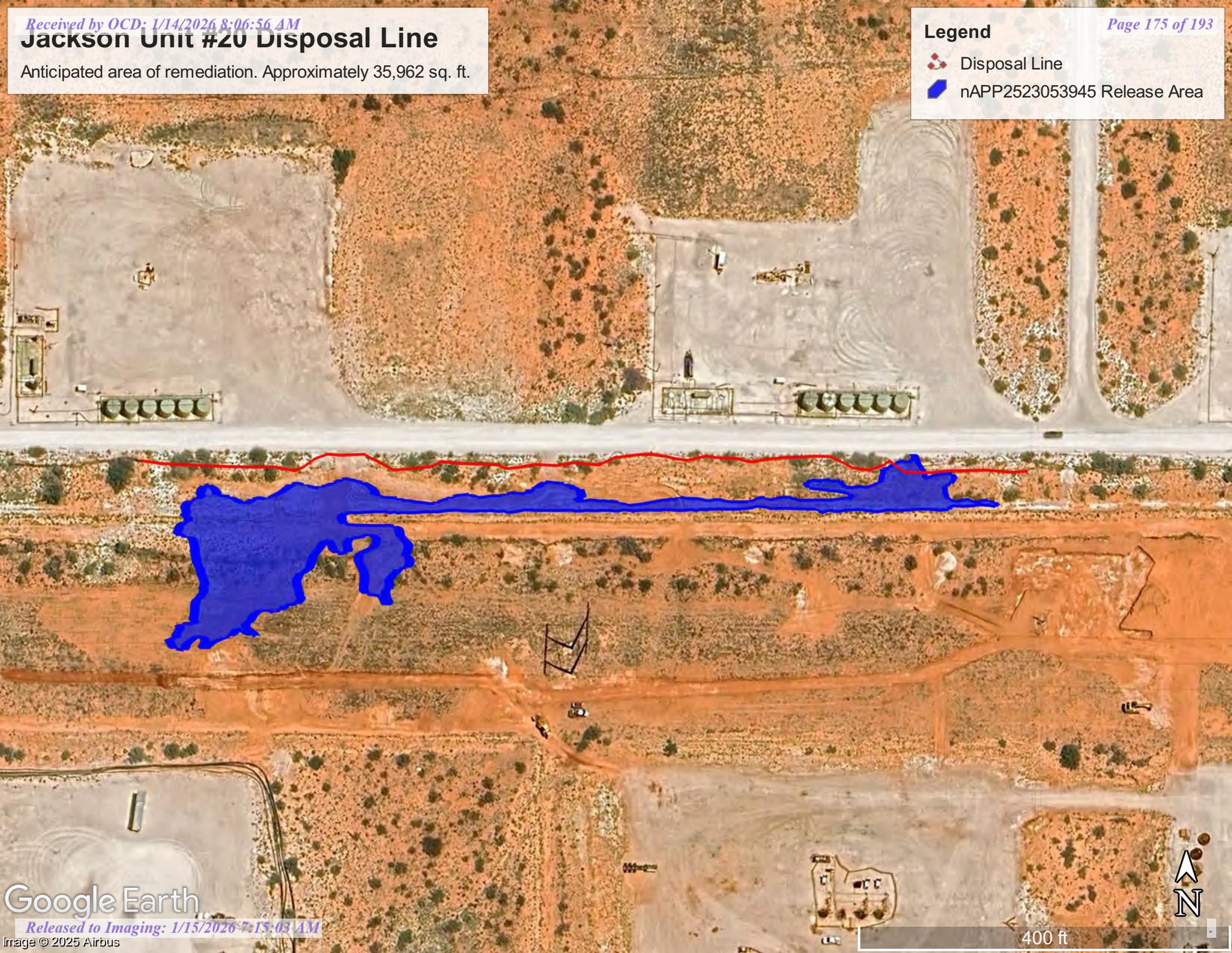


Jackson Unit #20 Disposal Line

Anticipated area of remediation. Approximately 35,962 sq. ft.

Legend

-  Disposal Line
-  nAPP2523053945 Release Area



BEU DI 9 Battery
ExxonMobil

Appendix B
Biological Review
SLO-ECO



Printable Reports		
Agency	Report	Result
US Fish & Wildlife	Information for Planning and Consultation (IPaC)	-----
	(Potentially) Endangered Species	3
	Bald & Golden Eagles	0
	Migratory Birds	5
	Facilities	0
	Wetlands	0
Vertex "Habitats" GIS Map		
Agency	Layer	Result
BLM		
	Special Status Plant and Wildlife Habitat	-----
	Potential Habitat (Planning Area Only)	None
	Dunes Sage Brush Lizard	None
	Lesser Prairie Chicken	3
	Lesser Prairie Chicken Timing Restriction	None
	Natl Designated Areas of Critical Environmental Concern	None
NM Game and Fish		
	NM Crucial Habitat Assessment Tool (NM CHAT)	-----
	Crucial Habitat	5
	Species of Concern	5
	Large Natural Areas	2
	Natural Vegetation	6
	Terrestrial SERI	3
	Aquatic SERI	6
	Fresh Water Integrity	5
	Weland and Riparian Areas	6
	NM State Wildlife Action Plan (SWAP) Macrogroups	Chihuahuan Desert Scrub
	NM Important Plant Areas	None
	Riparian Corridors	-----
	Upper Rio Grande	None
	Middle Rio Grande	None
	Canadian Upper Pecos	None
	Gila Region San Juan	None
	Lower Pecos Tularosa basin	None
	NM Riparian Corridor	None
US Fish & Wildlife		
	Critical Habitat for Threatened and Endangered Species	None
NM Natural Heritage		
	Federal Threatened and Endangered (Fed T&E)	None
	State Threatened and Endangered (State T&E)	None
NM State Forestry		
	Important Plant Area (IPA)	None

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Lea County, New Mexico



Local office

New Mexico Ecological Services Field Office

☎ (505) 346-2525

📠 (505) 346-2542

2105 Osuna Road Ne

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

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1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
 2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Birds

NAME	STATUS
Lesser Prairie-chicken <i>Tympanuchus pallidicinctus</i> No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/1924	Endangered
Northern Aplomado Falcon <i>Falco femoralis septentrionalis</i> No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/1923	EXPN

Insects

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> Wherever found There is proposed critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/9743	Proposed Threatened

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

Bald & Golden Eagles

Bald and Golden Eagles are protected under the Bald and Golden Eagle Protection Act [2](#) and the Migratory Bird Treaty Act (MBTA) [1](#). Any person or organization who plans or conducts activities that may result in impacts to Bald or Golden Eagles, or their nests, should follow appropriate regulations and implement required avoidance and minimization measures, as described in the various links on this page.

The [data](#) in this location indicates that no eagles have been observed in this area. This does not mean eagles are not present in your project area, especially if the area is difficult to survey. Please review the 'Steps to Take When No Results Are Returned' section of the [Supplemental Information on Migratory Birds and Eagles document](#) to determine if your project is in a poorly surveyed area. If it is, you may need to rely on other resources to determine if eagles may be present (e.g. your local FWS field office, state surveys, your own surveys).

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide avoidance and minimization measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

Bald & Golden Eagles FAQs

What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are an eagle ([Bald and Golden Eagle Protection Act](#) requirements may apply).

Proper interpretation and use of your eagle report

On the graphs provided, please look carefully at the survey effort (indicated by the black vertical line) and for the existence of the "no data" indicator (a red horizontal line). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort line or no data line (red horizontal) means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list and associated information help you know what to look for to confirm presence and helps guide you in knowing when to implement avoidance and minimization measures to eliminate or reduce potential impacts from your project activities or get the appropriate permits should presence be confirmed.

How do I know if eagles are breeding, wintering, or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating, or resident), you may query your location using the [RAIL Tool](#) and view the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If an eagle on your IPaC migratory bird species list has a breeding season associated with it (indicated by yellow vertical bars on the phenology graph in

your "IPaC PROBABILITY OF PRESENCE SUMMARY" at the top of your results list), there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

Interpreting the Probability of Presence Graphs

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. A taller bar indicates a higher probability of species presence. The survey effort can be used to establish a level of confidence in the presence score.

How is the probability of presence score calculated? The calculation is done in three steps:

The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.

The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season ()

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort ()

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data ()

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

Migratory birds

The Migratory Bird Treaty Act (MBTA) ¹ prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior authorization by the Department of Interior U.S. Fish and Wildlife Service (Service).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds
<https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide avoidance and minimization measures for birds
- Supplemental Information for Migratory Birds and Eagles in IPaC
<https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

Measures for Proactively Minimizing Migratory Bird Impacts

Your IPaC Migratory Bird list showcases [birds of concern](#), including [Birds of Conservation Concern \(BCC\)](#), in your project location. This is not a comprehensive list of all birds found in your project area. However, you can help proactively minimize significant impacts to all birds at your project location by implementing the measures in the [Nationwide avoidance and minimization measures for birds](#) document, and any other project-specific avoidance and minimization measures suggested at the link [Measures for avoiding and minimizing impacts to birds](#) for the birds of concern on your list below.

Ensure Your Migratory Bird List is Accurate and Complete

If your project area is in a poorly surveyed area, your list may not be complete and you may need to rely on other resources to determine what species may be present (e.g. your local FWS field office, state surveys, your own surveys). Please review the [Supplemental Information on Migratory Birds and Eagles document](#), to help you properly interpret the report for your specified location, including determining if there is sufficient data to ensure your list is accurate.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the "Probability of Presence Summary" below to see when these birds are most likely to be present and breeding in your project area.

Review the FAQs

The FAQs below provide important additional information and resources.

NAME	BREEDING SEASON
Chestnut-collared Longspur <i>Calcarius ornatus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 1 to Aug 10
Ferruginous Hawk <i>Buteo regalis</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/6038	Breeds Mar 15 to Aug 15

Northern Harrier *Circus hudsonius*

Breeds Apr 1 to Sep 15

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

<https://ecos.fws.gov/ecp/species/8350>

Pectoral Sandpiper *Calidris melanotos*

Breeds elsewhere

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Sprague's Pipit *Anthus spragueii*

Breeds elsewhere

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/8964>

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "[Supplemental Information on Migratory Birds and Eagles](#)", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of

presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

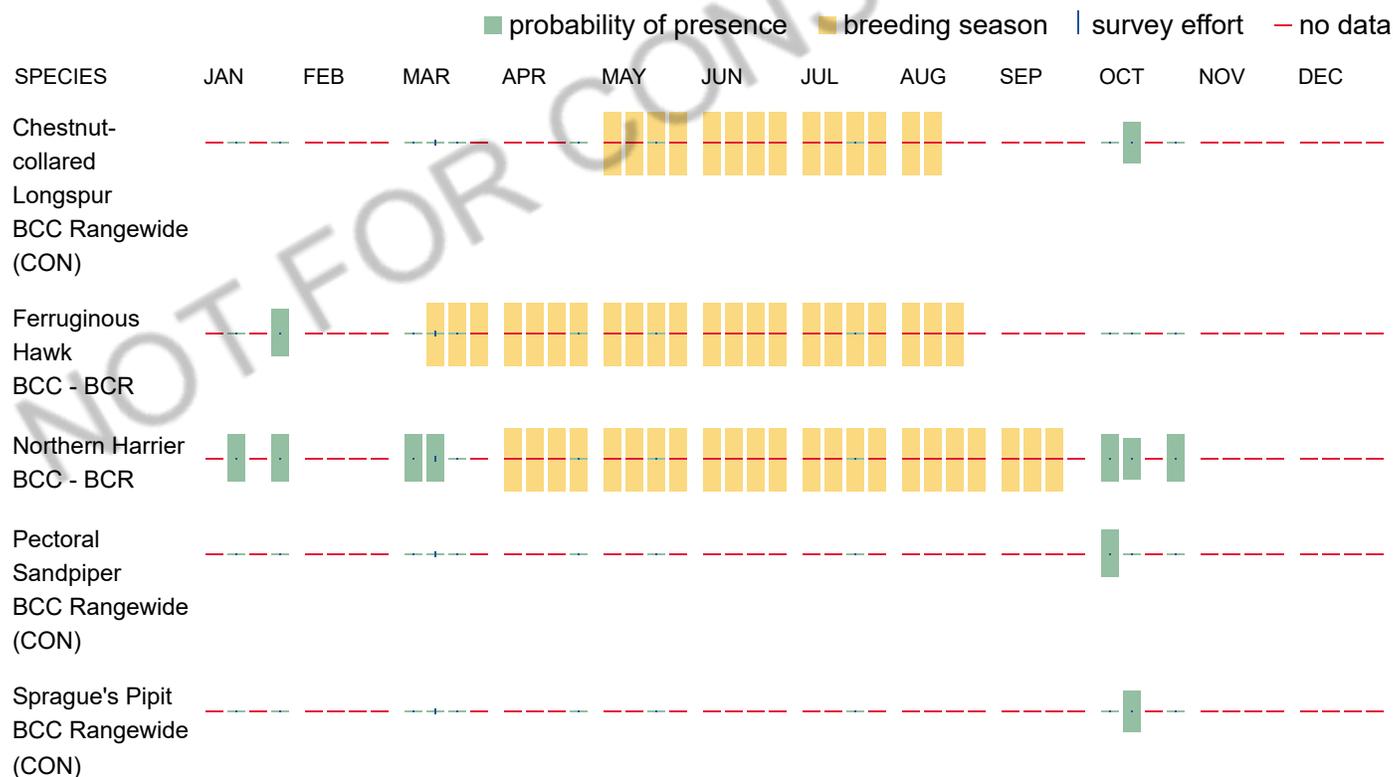
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (-)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

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Migratory Bird FAQs

Tell me more about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds.

Interpreting the Probability of Presence Graphs

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Survey Timeframe

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Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

This location did not intersect any wetlands mapped by NWI.

NOTE: This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 542948

QUESTIONS

Operator: Jonah Energy LLC 370 17th Street Denver, CO 80202	OGRID: 333010
	Action Number: 542948
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2523053945
Incident Name	NAPP2523053945 JACKSON UNIT #20-28 DISPOSAL LINE @ FAPP2307349314
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Facility	[fAPP2307349314] JACKSON UNIT 20H & 21H

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	JACKSON UNIT #20-28 DISPOSAL LINE
Date Release Discovered	08/18/2025
Surface Owner	State

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pipeline (Any) Produced Water Released: 83 BBL Recovered: 60 BBL Lost: 23 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 542948

QUESTIONS (continued)

Operator: Jonah Energy LLC 370 17th Street Denver, CO 80202	OGRID: 333010
	Action Number: 542948
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Chance Dixon Title: Project Manager Vertex Email: cdixon@vertexresource.com Date: 01/14/2026
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QUESTIONS, Page 3

Action 542948

QUESTIONS (continued)

Operator: Jonah Energy LLC 370 17th Street Denver, CO 80202	OGRID: 333010
	Action Number: 542948
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	14100
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	10000
GRO+DRO (EPA SW-846 Method 8015M)	5510
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	02/01/2026
On what date will (or did) the final sampling or liner inspection occur	02/01/2026
On what date will (or was) the remediation complete(d)	03/16/2026
What is the estimated surface area (in square feet) that will be reclaimed	38218
What is the estimated volume (in cubic yards) that will be reclaimed	5562
What is the estimated surface area (in square feet) that will be remediated	38218
What is the estimated volume (in cubic yards) that will be remediated	5562

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 542948

QUESTIONS (continued)

Operator: Jonah Energy LLC 370 17th Street Denver, CO 80202	OGRID: 333010
	Action Number: 542948
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fJEG1635837366 OWL LANDFILL JAL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Chance Dixon Title: Project Manager Vertex Email: cdixon@vertexresource.com Date: 01/14/2026
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 5

Action 542948

QUESTIONS (continued)

Operator: Jonah Energy LLC 370 17th Street Denver, CO 80202	OGRID: 333010
	Action Number: 542948
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 542948

QUESTIONS (continued)

Operator: Jonah Energy LLC 370 17th Street Denver, CO 80202	OGRID: 333010
	Action Number: 542948
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information

Last sampling notification (C-141N) recorded	{Unavailable.}
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Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	No
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**State of New Mexico
Energy, Minerals and Natural Resources
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1220 S. St Francis Dr.
Santa Fe, NM 87505**

CONDITIONS

Action 542948

CONDITIONS

Operator: Jonah Energy LLC 370 17th Street Denver, CO 80202	OGRID: 333010
	Action Number: 542948
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvez	Remediation plan is approved as written except with the following conditions; 1. Alternative sampling plan request not to exceed 400 square feet (ft.2) for each five (5) point composite (5pc) from the excavation floor per 19.15.29.12D (1b) NMAC is approved. Sidewall confirmation sample(s) will abide at 200 ft.2 for each 5pc per 19.15.29.12D (1c) NMAC. All other provisions addressed in 19.15.29.12D NMAC remain in effect. 2. Prior to backfilling the open excavation per 19.15.29.12D (2) NMAC, Hilcorp must collect a minimum of one (1) five point composite sample from the media being used as backfill to verify that it meets non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. This is especially important for the material being used within the top four (4) feet from the ground surface.	1/15/2026
nvez	3. Jonah Energy has 90-days (April 15, 2026) to submit to OCD its appropriate or final remediation closure report.	1/15/2026